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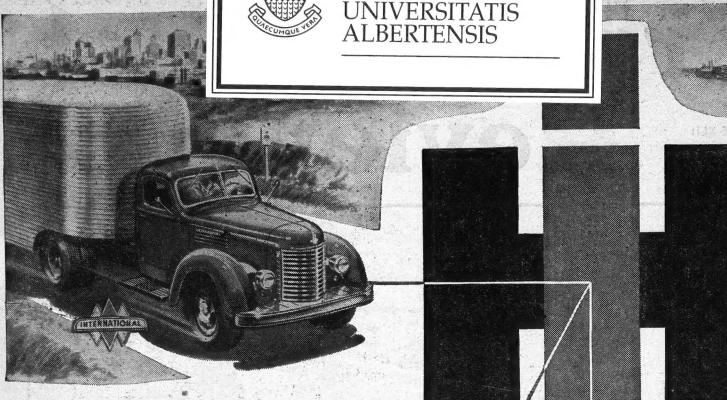
Farm and Ranch VOLUME XLII NUMBER 3 POLUME XLII NUMBER 3



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v.42 no.3 1946





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HE PRODUCTS that Harvester builds in its twenty-one manufacturing plants—the International Farm Tractors and Equipment, the International Trucks, International Industrial Tractors and Engines—are working today in every community in the land.

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"Getting some good grain this year,

"Yes, these Canadian farmers know how to grow it. I understand they all use Ceresan to keep their crops free from smut and other seed-borne diseases."



Sugar Beets, Special Crops Bring Prosperity to South

By FRED SALTVOLD

THE irrigated districts surrounding Lethbridge, Alberta, are said to be among the most prosperous farming communities between Ontario and British Columbia. Admittedly, the Lethbridge area is blessed with soil which has responded uniformly well to irrigation, but much credit for its prosperity also is due to the sugar-beet industry. Although the three-fifths of the irrigation farmers who do not grow beets or any other row crop also are prospering, it is generally agreed that sugar beets give higher returns on irrigated land than any other crop. Mr. Wyman, an experienced official of the Lethbridge Northern Irrigation District in which over one-Wyman should know if anyone does.

Lethbridge district, site of the only two sugar factories in Alberta, at Raymond and Picture Butte, produced last year more sugar beets than all the rest of Canada. Dominion statistics as quoted in the 1945 report of the Alberta Sugar Beet Growers, show production in the only four provinces in which the beets were grown:

		AV.	
Beet	Total	Tons	Av.
Acre-	Ton-	Per	%
age	nage	Acre	Sugar
Quebec 1,100	9,844	8.9	14.4
Ontario17,661	164,166	9.3	17.27
Manitoba _ 9,500	82,000	8.6	15.5
Alberta30,300	362.621	11.7	16.93

21/2 tons per acre greater than the average for the rest of Canada. Alberta had 2.000 more acres and 106.611 more tons of beets than the other three provinces combined. Further, the average sugar content of Alberta beets was exceeded only by Ontario beets, and that by a very slight percentage.

Final price will not be known for some time, but on the basis of the total payment of \$10.92 per ton for 1944 we can calculate the value of Lethbridge's 1945 beet production at \$4 million. The average payment to each of the 1,347 growers will be over \$2,900.

"Objective of the sugar beet growers in Canada is to produce from 40 to 50 per cent of the total sugar consumption. To do this will require almost double the factory capacity we have today," Phil Baker, president of the Alberta Sugar Beet Growers, has stated.

mean the production of many millions of dollars of new wealth in Canprofit to the beet grower by any means: he pays his hand labor approximately one-third of his gross income, has \$500 to \$2,500 invested in beet culture machinery and \$5 per acre in seed and fertilizer, according to Mr. Baker, who adds, however, that almost the entire amount of this money is spent in the beet areas and contributes in very large measure to their prosperity

Labor is hard to get and a serious shortage is in sight in 1946, although W Y Cannon, president of the American Society of Sugar Beet Technologists, forecasts that the labor problem will be eliminated within 10 years by complete mechanization of operations A constant threat to the grower is ad

EXPECT HIGH PRICE FOR 1945 BEETS

THE first subsequent payment on the 1945 sugar beet crop was mailed to beet growers February 15. The payment is 55 The initial payment for 1945 beets was \$8 a ton, making the payment \$8.55 to date. Additional payments are made from time to time during the year, and it is expected the final payment on the 1945 crop will exceed the \$10.92 per ton of the year before. "The cheques will soon go into circulation, helping all lines of business," states a Raymond dispatch in the Lethbridge Herald.

verse weather. Mr. Baker has stated third of Alberta's sugar beets are that in his opinion Lethbridge is about grown, declares that the beet growers as far north as sugar beets can be sucare considerably better off on the avercessfully grown, owing to frost. As a age than the non-growers—and Mr. matter of interest, Brooks, Alta., where a \$2 million beet factory is under consideration, had a 30-year average frostfree period of 115 days compared to Lethbridge's 112 days. By comparison, Edmonton had 95 frost-free days.

In addition to the two sugar factories four canneries are operating-at Coaldale, Lethbridge, Magrath and Taber. This is a happy combination for some producers, who may thus employ their big investment in beet or potato machinery in growing other row crops as well. Further, if a legume such as peas or beans is grown it works in well, as a legume in considered an absolute 'must" in any crop rotation which includes beets or potatoes. However, it is true that other farmers have their hands full growing only one-row crop-The Alberta average yield was over either beets or potatoes, or some other vegetable for canning or fresh sale.

> T is estimated that 5,000 acres of canning crops, such as peas, beans and corn, were sown in 1945, and that some \$1 million accrued to the growers from these crops and the by-products.

> There were about 2,500 acres of potatoes, with an average yield of around four tons per acre, last year, from which the growers grossed about \$350,000, believes Mr. Archibald of the provincial department of agriculture, who specializes in this crop. There also were a few hundred acres of vegetables for fresh sale and for pickling, which probably brought in another \$150,000.

Not only did the Lethbridge growers haul a huge tonnage of beets to the factories, but they had left on their farms well over a ton of beet tops, dry F that objective is reached, it will value equal to \$15 alfalfa hay, ton for ton, estimates S. Graham, the district agriculturist. Thus, the beet tops had ada annually. Of course, it is not all a feeding value of at least \$15 per acre and that gave a gross value of some \$455,000 for all the beet tops in the district. Peavines from the smaller pea acreage had an even greater feeding value per acre

Further, from the two factories 80,000 tons of wet beet pulp was available to the growers on a quota basis at about \$1.25 per ton delivered to the farm. On the basis of several tests conducted at experiment stations in the United States the feeding value per ton of this pulp equals about \$3.80, at the present Lethbridge values of grain and alfalfa hay This difference of \$2.50 per ton between cost and feeding value constitutes another \$200,000

(Continued on page 8)

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Earliest Quality Tomato Yet Developed — Valuable For All Parts of Canada

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Of immense value for the North and West and other short season districts. Highly desirable for all other areas too as an extra early sort producing fine quality ripe fruit as much as two weeks or more before most other varieties. Proved a sensation on the Prairies in 1943, 1944 and 1945, including such districts as Lethbridge and Brooks, Alta: Indian Head and Swift Current, Sask.; Brandon and Morden, Man. Around Calgary, where first distributed under the name of "Alberta", gardeners were simply "wild" about it. At Lethbridge Early Chatham ripened a week to twelve days before other extra early varieties. At Morden, Man., it has yielded as much as 20% to 40% greater crops than other good earlies. Early Chatham is dwarf, non-staking, and may be planted as closely as two feet each way. Fruits uniform, fine shape and colour; delicious quality. Average about 2½ inches across but frequently larger. Order direct from this advertisement. As seed is not yet plentiful we cannot offer larger quantities than listed. (Pkt 15¢) (oz 75¢) postpoild.

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HE ladies sometimes like the dim, flattering light of candles. But most people, even if they could get far greater illumination from candles at far less cost, would prefer electric light.

Considerations of health, comfort, convenience, cleanliness and safety, have become more important to the modern way of life than the factor of cost.

Nevertheless, it costs money to survey new power sites, harness waterfalls, and build transmission lines, so that when you flick a switch or set a thermostat you can be sure of light and heat at your fingertips. Quite possibly a part of your own Life Insurance premium has been invested in the public utilities which render these services.

Government supervision of all such investments safeguards the money laid away by more than four million thrifty policyholders, united for their common security in the great co-operative business of Life Insurance.



This portion of every dollar invested out of Life Insurance funds helps to finance thousands of building and transportation projects, public utilities, industries, etc., which create employment throughout the country. The remainder is in municipal bonds, farm and town mortgages, etc. In addition, \$500,000 is paid out in direct benefits every working day to policyholders or their loved ones.

LF-65

It is good citizenship



A Message from the Life Insurance Companies in Canada.

Mounting Interest Shown In Rural Electrification

trated by the fact that he had er must plan to use as much power as just come from the Lethbridge he can economically utilize. office of the Calgary Power the minimum charge is \$5 monthly, Company where a group of and two cents per K.W.H. per month, farmers, with map, were urging for each K.W.H. over 20. This means the company to bring electricity that each K.W.H. monthly costs 11.2 to their district, said E. B. Mar-cents if 50 K.W.H. are used, 6.6 cents tin, agricultural engineer with 200 K.W.H. are used, and 3.1 cents if the Dominion experimental 400 K.W.H. are used. farms service who is studying the Alberta electrification projects, when he addressed the agricultural short course at Lethbridge While this was a good thing, he warn ed that bringing power to a sparsely three machines could be operated at populated province like this was an once. That was an economical use of expensive proposition.

However, if electricity is wisely used on a farm it is not high-priced, and he believed that if farmers bought such equipment as milking machines, wash ers, pig and chick brooders, electric motors for necessary purposes, which pay for themselves, there was no reason why electric current would not continue to be economical on farms even if a price slump occurs. As evidence, he pointed to the fact that several Olds farmers were paying their entire electric bill through the in creased production of eggs resulting from the use of electric lights in the to get a good installation was well poultry house.

In order to make good use of his THE mounting interest in rural heavy investment in electrical equipment, and to reduce the cost per unit electrification was illus- of current as low as possible, the farmif 100 K.W.H. are used, 4.3 cents if

> Double up on the use of motors if possible, he advised. One farmer booked up his grinder, milking machine and rotary pump on one three-horsepower motor, so when he switched it on all power, if the installation was checked by an electrician to make sure the motor was not being overloaded, Mr. Martin said.

> He cautioned against putting in too cheap an installation in order to save a few dollars. One farmer he knew who had used exposed wiring, and only a single drop light in each room with a pull-chain switch, had regretted his false economy almost as soon as he turned on the lights A fancy wiring job was not recommended by Mr. Martin, but he said a little extra money spent.

Plan Many Improvements In Farming Equipment

A VOID buying new farm equipment tiliage operations at once at the Lethbridge agricultural short vised. course by G. N. Denike, agricultural mental station where extensive investi gations have been made into farm machinery. He foresaw major changes waiting for

By use of nigher quality materials, such as tubular steel and rivets. instead of the present "angle iron and stove bolt" construction, and through other improvements, farm equipment which would last much longer than present types might soon be on the market. While that might involve that repairing be done by experts, the speaker believed farmers would welcome having such mechanical work taken off their hands

A trend was underway toward specialized tillage equipment so that a different machine would be used for each tillage operation, and also different tillage operations to suit each individual season. The cost of owning a large number of machines would be reduced somewhat by "tool bar" equipment (hydraulically-, cable-, or footcontrolled tools placed on the indivi dual tractor), Mr. Denike thought. Such tool bar equipment would soon be on sale for average-sized farms, he predicted, although large scale operators probably would have to use the

sary, he believed, if the most was to be got out of the crop. That was another reason for being especially cautious about any equipment offered in 1947, Mayor Saunders announces. as a "cure all"—designed to do several The last annual fair was in 1941

immediately if you can get along these new types are tested for your on what you have, was the advice given area by experimental stations, he ad-

A hydraulic clutch to slow the startengineer at the Swift Current expering load, which is the greatest strain on a tractor, so that a smaller tractor can be used than at present; a variable speed knife on the cutting bar of ahead, which might be worthwhile the power mower so it will cut different types of grass more efficiently; and considerable use of quick drying equipment for valuable hay, were other probable improvements ahead, said Mr.

Good Year Reported By Fidelity Life

The annual report of the Fidelity Life Assurance Company for the year 1945 indicates that the company experienced one of the most successful years in its 32 years of operation. Business in force has grown to \$13,236,237.00. New business in 1945 amounted to \$2,831,895.00, and total income of the company was almost a half-million dollars—an all-time high Mortality experience was favorable, considering the war claims, and surplus funds showed substantial increases

There was paid to policyholders and beneficiaries a total of \$129,770.00, over 60 per cent of this figure being paid to living policyholders Assets of the company now exceed \$2,650,000.00, an present multiple units for some time all-time high, of which 69.5 per cent is Specialized equipment was neces invested in Dominion of Canada bonds

The Toronto Exhibition will re-open

From Factory To You At Factory Prices

MERCHANDISE AT TREMENDOUS SAVING CLASS

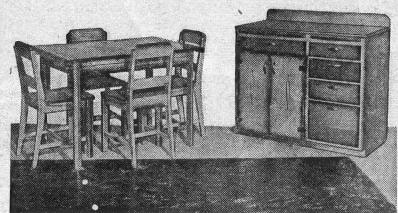
EXTENSION TABLE FOUR CHAIRS

In modern design and attractive finish. White with black trim; primrose yellow, red trim, or varnish smoke finish as illustrated.

Style No. TC-5-

Store pricee \$49.50

FACTORY PRICE,

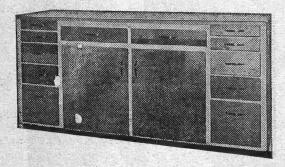


Attractive and useful Cabinet, designed to give the utmost in utility. baking board, cutting board, linen drawer, two utensil drawers, bread drawer, double-door cupboard, recessed toe board. Finished in white, black trim; primrose yellow, red trim or varnish smoke finish.

Style No. KCV-42-

FACTORY PRICE, \$69.00 Store price .

Kitchen Cabinet



Style No. K.C. 6

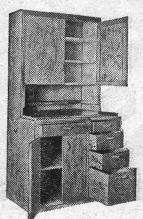
This beautiful Kitchen Cabinet contains every feature desired by the modern housewife. Built to rigid standards, 6' long, 36" high, 22" deep. Has baking board, cutting board, 1 cutlery drawer, 1 utensil drawer, 4 miscellaneous drawers, 2 drawers for flour and sugar, 2 linen drawers, recessed toe board, 2 cupboards.

Color: White, black trim; primrose yellow, red trim.

Store price, \$157.00.

FACTORY PRICE,

UTILITY KITCHEN CABINET



STYLE No. H.K.C. 42

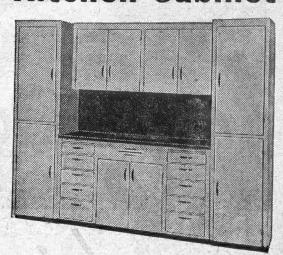
Now available, Utility Kitchen Cabinets made from the best quality material, well built. Size 42" wide, 22" deep, 6' 6" high.

Warp-proof, Modern Slab Doors. Look at these features: Roomy Shelves for Dishes. Open Spice Shelf. Baking Board.
Cutting Board.
Linen Drawer.
Cutlery Drawer.
2 Utensil Drawers. Bread Drawer. Big Grocery Cupboard, Recesseed Toe Board.

Colors: White, black trim; primrose yellow, red trim. STORE PRICE, \$84.00.

FACTORY PRICE.

Kitchen Cabinet



This illustration shows what can be done with Combination Sets.

The centre base section is identical to our K.C.-6 except that it is fitted for a 24" x 18" sink which only eliminates the two linen drawers.

The two side sections comes in left or right hand and consists of a series of shelves or broom

The upper centre section can be had in six-foot lengths.

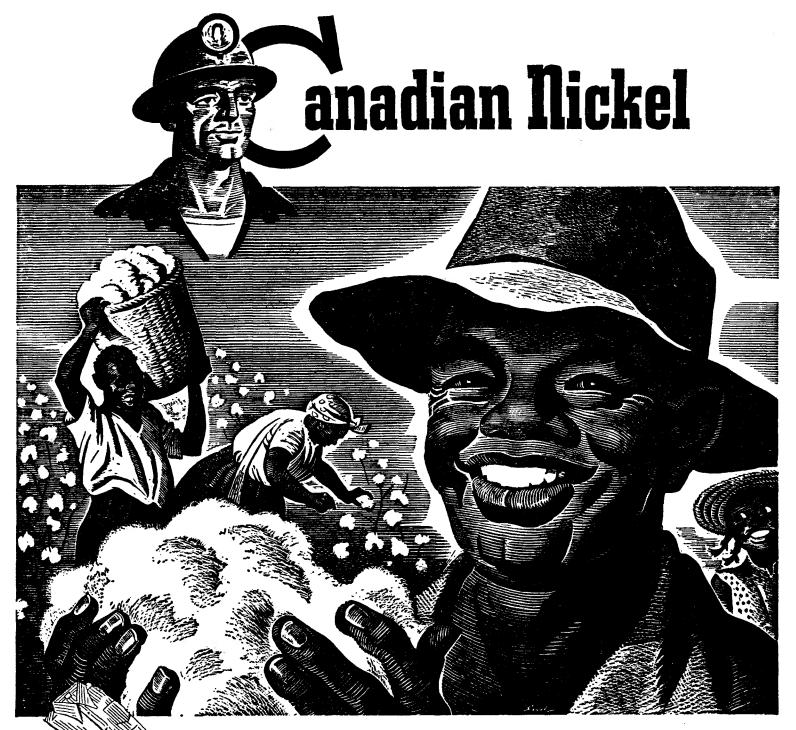
Style No. K.C.S.-6-Base Cabinet-Store price, \$157.00. FACTORY PRICE ... Style No. B.C.L.-20-Broom Closet-Store price, \$86.00. FACTORY PRICE ... Style No. L.C.R.-20-Linen Closet-Store price, \$36.00. FACTORY PRICE Style No. O.S.-12-Overhead Shelf-Colors: White, black trim.
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thousands of Canadians in the Nickel mines, smelters and refineries, and other thousands who produce the lumber, power, steel, explosives, machinery, equipment and supplies used by the Canadian Nickel industry.

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of Carrie

Vol. xlii.

CALGARY, MARCH, 1946

THE price of gasoline has just gone up two cents a gallon, and when the federal government subsidy comes off it will go up some more. These price rises should make all gasoline users conscious of the handicap from which this country suffers because it lacks Turner Valley its own oil supply. has supplied this country for some years with cheap gasoline—as cheap as is obtainable in most parts where oil is produced. As long as Turner Valley produced enough to supply all our needs we were reasonably well taken care of at a good price.

Owing to the policies imposed by the oil controller during the war the search for oil in the West was retarded, and the production of oil in Turner Valley was cut down. Oil has had to be imported from the The cost of that oil at United States. prairie refinery is the purchase price at the point in the United States where it was produced plus the freight to the Canadian refinery.

No oil is available in the United States in the area close to Canada. It has to be hauled from Wyoming and Texas. The federal government has been paying the difference between the cost of Turner Valley oil and imported oil. At Regina this has run as high as \$1.40 a barrel on as much as 10,000 barrels a day.

This subsidy has recently been cut, but is still substantial. When it is removed the price of crude oil in Canada must go up to the price in Canada of imported American oil. This will increase the cost of gasoline to the prairie provinces. These facts surely make it clear that we ought to be doing more to find a supply of oil on the prairies.

Recently there has been perfected a process for making gasoline out of natural gas. A barrel of gasoline can be made by this process out of 15,000 cubic feet of natural gas. The cost will be about 6c a gallon for gasoline produced by this method if the gas can be bought for 4c a thousand.

It is because of this process that we have recently seen large foreign-owned companies coming into Alberta to lease large gas land areas. Under the filing regulations created by the Alberta government these companies can get control of large areas of government-owned mineral rights. They are busy taking these in great chunks. They now own the best and will soon own all of the known gas areas. The

Minu

ownership of gas is passing from the people of this province to these foreign companies which will have a monopoly on the supply of gasoline produced by the new method.

It is a great pity that the government of Alberta has developed a policy which permits foreign companies to get and keep in this province great areas of potential oil and gas land in circumstances which will create a monopoly on a substance as important as gasoline.

Not many people know that the bread they buy at 10c a loaf is based on wheat costing 773%c a bushel for the best grade at Fort William. The Canadian people are getting about as good bread as there is in the world at probably the cheapest price in the world. They should be made aware of that fact.

The export price of wheat, basis one northern at Fort William, is \$1.55 a bushel, that is 77% c more than the cost of bread to Canadian consumers. The government contributes 47% cents of that amount, paying the farmer \$1.25 for all wheat milled for domestic use. This is 30c a bushel less than the value of this wheat, so that the farmer is paying 30c a bushel for the wheat that makes bread for Cana-

When the government inaugurated its price ceiling policy in the autumn of 1941. Canadian farmers accepted a subsidy program on the ground that it was a necessary part of total war. Now farmers fear that the policy will be carried into peace years and the consuming public will expect to be fed at prices substantially below farm costs.

If the Canadian people, with an annual income in excess of \$10 billion, cannot afford to pay more than 77% c a bushel for their bread, what is the outlook for the future? Will farmers ever be able to obtain a reasonable return for their production? Those are questions which are seriously agitating the minds of the farmers these days. As time goes on they are getting more and more concerned about the situation.

WESTERN farmers are faced this year with a new urgent appeal for food production, a call to help prevent mass starvation in Europe where without generous aid in the next few months ten to fifteen million people will not eat enough to sustain life.

Prime Minister Atlee has cabled the governments of Canada, Australia and other exporting countries urging their assistance in solving Britain's foremost problem—finding food for her people.

United States is responding to the call of Europe's hunger by reducing the quality

of her bread, diverting wheat from industrial uses; a return to meat rationing is suggested.

Faced by the prospect of eating darker bread, a further reduced ration of cooking fats and less home-grown bacon, eggs and poultry, Britain will stimulate domestic production of foodstuffs in every possible way. Producer subsidies will be increased and 8,000 farm workers due for military service will be left on the land. Success of these measures will meet only a small part of the nation's requirements.

Canada is the best source of supply for three staples, wheat, beef and bacon. clearing the carryover bins, the Dominion can ship 140,000,000 bushels of wheat, including flour, in the current crop year and a steady flow of meat products is leaving the eastern seaboard.

Despite Ottawa's recommendation that the 1946 wheat acreage should not be increased beyond the 23,414,100 seeded last year, it is quite possible that a somewhat larger acreage will go in this spring. Early moisture conditions are promising for a crop, the labor situation is improving and it is recognized that no other product equal in food value to wheat can be so easily shipped or stored. It would be unfortunate, however, to see any great increase in wheat acreage at the expense of coarse grains since these, particularly barley, are the basis of an export trade in finished meat products.

News of great importance to the welfare of the province comes from a number of Alberta towns. This tells of plans well advanced for the development of local industries, mainly in the field of food processing. Raymond and Picture Butte are firmly established on the industrial map with sugar beets and sugar factories, and the Brooks area is organizing for a similar enterprise. Lethbridge is to have a co-operative meat packing plant. The E.I.D. will have a vegetable cannery, and new creameries will serve several dairy farming localities.

There is room for many more plants. their size depending on local conditions, which will pack or otherwise process field vegetables, small fruits, cereal grains, poultry, dairy products, meats, wool and hides.

The expansion of irrigation and the intensive type of farming which it fosters provides a natural background for many industries close to the soil, industries which put good money in circulation in return for primary products and labor. Some of these projects will be financed locally by the patrons, others will represent large investments from outside; all of them deserve support for the prosperity which their successful operation will bring to the community.

PLAN FOR THE FUTURE



HOLD YOUR Victory Bonds!

Why compete in a "Sellers' Market"? Hold your bonds and add the interest to your savings for the day when your dollars have greater buying power.

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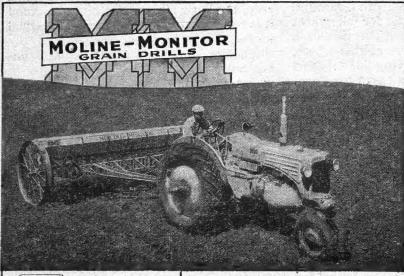
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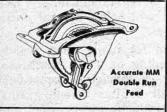
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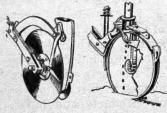
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MM Deep Cup Fluted Feed





MM Single or Double Discs

Moline-Monitor drills are offered in types and sizes for all territories and sow all crops as they should be sown for uniform stands and bigger yields.

They have many patented features to do better seeding job. MM fluted and double They have many patented features to do a better seeding job. MM fluted and double run feeds assure a positive, even feed and elimination of danger of cracking seed. Both types of feed have wider range and more accurate control of amount of seed sown. Choice of single disc, double disc, hoe, lister and deep furrow openers. MM disc bearings are famous for long life and light running. Famous MM front delivery of seed ahead of disc bearing assures uniform and better covering of seed. Reversible hopper allows feed cup openings to face toward operator whether operating with horses or tractor. Rigid all-steel frame helps assure long life accuracy. Keystone-shaped, all-steel hopper is easy to fill. Bushel per foot capacity. Outer ends of axles where load is carried are supported by extra large Hyatt roller bearings enclosed in self-aligning, dust-proof housings. Single chain drive. High quality pressure springs. Tubular steel pressure rods. Simple, efficient power lift available. See your MM dealer.

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Sub-Branches and Transfer Points in Other Leading Farm Machinery
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Machinery Being Reserved For Veterans on Farms

DURING the next two years of short been placed for machinery in 1947. It is hoped that use of these supplies, plus provide for requirements.

move to a different farming district. To give a fair chance to a veteran who officials are making provision to buy option of buying at the end of the year. After his wife's arrival the couple can decide whether or not they wish to settle on that particular farm, and as they have signed no purchase agreement they still will have the opportunity of settling under the Act on another farm or in a different locality if they so desire.

Sugar Beets in South

(Continued from page 3)

accruing to the district from the total tonnage of pulp. Beet molasses is another valuable feed but during war it has been used mainly for industrial purposes

Livestock Essential

A few years ago commercial feeders were buying up most of the beet byproducts cheaply and making money feeding cattle and sheep. One reason the beet grower did not do this himself was that he couldn't finance the purchase of feeders in the fall. That situation was changed about 1936 by the formation of a co-operative association. organized under the Provincial Guarantee Act, whose members could bor New "Rescue" Wheat row up to \$4,000 for feeding purposes.

During the next six years, six of these co-operatives were organized, plus a seventh in which the members Charles O. Asplund, had a turnover of \$3 million last year and was responsi-ble for some 40 per cent of the livethe irrigated area in the fall. It was lund's absence, that altogether 25,000 cient for general distribution in 1948. cattle and 110,000 lambs are being fed in the district this winter—about 90 per cent of them by beet growers.

stock feeding as a vital part of their batting sawfly.

supplies of farm machinery it is operations. They have beet by-products, expected that veterans settling under they have such feed as peavines or the Veterans' Land Act will be enabled alfalfa hay from the legume crop in to get sufficient machinery to carry on, their rotations, and their soils cry out according to H. Allam, supervisor of for manure to restore the organic the V.L.A. for the Alberta district. matter drained out by the irrigated Thanks to early placing of orders, the crops which yield several times the V.L.A. officials in Alberta expect to tonnages of dry land crops. The have some \$1,250,000 worth of machin. Scottsbluff experiment station, in Neery for distribution to their settlers in braska, has calculated a value for the early spring. Orders already have manure on sugar beet farms of \$3.72 when alfalfa was \$7 per ton, sugar beets \$6 per ton, oats 40 cents and pothe tatoes 50 cents per bushel. At present second-hand machinery which the tatoes 50 cents per bushel. At present veterans may wish to buy locally, will prices, then, the value of manure should be about \$5 a ton. For veterans farming on their own rate, the average beef animal fattened account, not under the V.L.A., Mr. produced at least \$12 and each lamb Allam said the machinery companies about \$1.25 value of manure during have agreed to reserve 30 per cent of this winter's feeding, on the basis of their civilian supplies to be sold to reliable calculations and experiments. holders of "priority slips" which are In other words, the beet grower who being issued by the V.L.A.

invested \$4,000 in feeder livestock last If a veteran signs an agreement un- fall would obtain about \$900 value of der the Veterans' Land Act to settle manure from them this winter, assumon a certain piece of land he will have ing the manure was used properly on no second chance to take advantage of the soil. It is safe to say that irrigathe Act, if, for example, he decides to tion farming cannot be carried on permanently without a livestock feeding program. It is small wonder that wishes to farm and is fully experi- the beet growers are worried about the enced, but who is still awaiting the future beef cattle market and are arrival of his wife from overseas, the pleading with the federal government to negotiate for the re-opening of the his land and chattels for him and al- United States market which may prolow him to rent the first year with the vide a permanent outlet for Canada's surplus beef.

Thus, beet growing-in itself profitable-is successfully combined in some cases with other row crops, especially canning vegetables; either or both of these crops, plus legume hays, are working in profitably with livestock feeding on a great many farms—and the manure, in turn, is valuable in maintaining the fertility of the soil. Producers' organizations, such as the Alberta Sugar Beet Growers, the Lethbridge Central Feeders Associations, and others, including the co-operative cannery at Coaldale and the expanding Southern Alberta Co-operative Vegetable Growers' Association, have played big roles in the success of these related enterprises. It gives some clue to the reason for the prosperity of the Lethbridge irrigated districts when we add up the gross values and find that \$6,155,000 worth of beets, canning crops, potatoes, fresh vegetables, beet tops and beet pulp alone were raised last year. That sum does not include the substantial profits from livestock feeding and the important value of restored soil fertility.

Is Sawfly Resistant

SIMPLIFIED sawfly control is heralded by the development of guarantee their own loan and have no "Rescue", a new variety of sawfly-remaximum for each individual. These sistant wheat developed by A. W. seven now are affiliated in the Leth- Platt of the Dominion experimental bridge Central Feeders Associations, farm, Swift Current, Sask. Licensing to avoid competition with each other and distribution of this variety was in buying and selling. The association, approved on February 21 by a con-managed by shrewd livestockman ference of agricultural scientists associated with the National Research

Development of Rescue began 15 stock which went into the feedlots in years ago. There now are 8,000 bushels of the prized wheat, which will be estimated by Del Palmer, the assistant placed with selected growers this year, who showed me around, in Mr. Asp- and it is expected there will be suffi-

Rescue wheat is deficient in breadmaking qualities and will carry a grade no higher than No. 3 Manitoba North-It is not surprising that more and ern, but it was recommended for dismore beet growers are looking on live- tribution because of the need of com-

Breeders'No

A MONG the coveted certificates awarded to Holstein breeders at their annual convention, "Class Extra" stein bull can win—went to J. Grauer vice-president is N. G. Muirhead, Win-& Sons Ltd., Eburne, B.C., and Colony nipeg. Directors from Manitoba are N. Essondale, B.C., owners Farm. bulls. Montvic Rag Apple Joe and Montvic Abbekerk Posch Pabst; to Ecole Regionale d'Agriculture, St. Cesaire, Que., for Raymondale Bluejay; and to George A. Godfrey & Sons, North Wilt-shire, P.E.I., owner of Falconwood King Bessie.

Alcartra Gerben, world champion yearly butterfat producer over all ages and breeds, brought the certificate of champion 305-day butterfat producer nadian championship record certificates included Hays Ltd., for Gerben Alcartra Wayne. Ted L. Townsend, Birtle, Man., owner of Spring Farm Bearli, received a 1,000-pound-butterfatproducer certificate.

Holstein registrations totalled 53,149 over the previous year. Membership was 9,717, a gain of seven per cent. C. elected president of the Holstein-Friesian Association of Canada for 1946.

1946 officers elected included first vice-president, W. H. Hicks, Agassiz, B.C.; and directors Harry Hays, Calgary; R. E. Stewart, Regina; J. E. Crawford, Winnipeg.

Directors of the Canadian Sheep Breeders' Association, elected at the annual meeting in Toronto, include: Manitoba-Robert M. Smith, Brandon; Saskatchewan - Joseph Moffat, Sintaluta; Alberta—A. Hildenbrand, Vauxhall: British Columbia-John Barker. Chilliwack.

Western Canadians elected as directors of the Canadian Red Poll Association, at the annual meeting in Toronto, were A. E. Johnston, Enderby, B.C.; Cabri, Sask., Wilmott McComb, Hayfield, Man.; George Wilkinson, Portage La Prairie, Man.

Among 113 Jersey cows qualified in Toots, bred and owned by R. G. May, Calgary. She produced 11,650 pounds of milk, 672 pounds of fat. A British Columbia cow, Frasea Viscountess Journal, owned by Hugh Savage of Ladner, produced 10,900 pounds of Journal, owned by Hugh Savage of Dominion Experimental Farm, La-Ladner, produced 10,900 pounds of combe; W. R. Eastwood, Menaik; W. milk, 604 pounds of fat, to lead the H. Ferguson, Calgary; J. M. Henderthree-year-olds. In the two-year-old son, Red Deer; Alex Kennedy, Sanclass, twice-a-day milking Provided guide: H. F. Rowe, Duffield and Deer State Rennedy, Sanclass, twice-a-day milking Provided guide: H. F. Rowe, Duffield and Deer State Rennedy, Sanclass, twice-a-day milking Provided guide: H. F. Rowe, Duffield and Deer State Rennedy, Sanclass and Deer State Rennedy, Deer State Rennedy, class, twice-a-day milking, Brandon Creamery and Supply Company's entry, Giant's Crocus Lady, led with 10,299 pounds of milk, 566 pounds of fat.

In 1945, a total of 12,133 Ayrshires were registered, an increase of 784 over 1944: 10.628 animals were transferred. an increase of 871; and 2,562 were exbership of the Canadian Ayrshire qualified during this period. Breeders' Association now stands at and Ontario came next with 4,826.

W. H. Grant, Foam Lake, Sask., was elected president of the Canadian Shorthorn Association at its February certificates—the highest award a Hol- 15 annual meeting in Winnipeg. Second H. Muir, A. S. Fisher; Saskatchewan, Colony Colanthus Perfection; to Central W. A. Small, E. A. James, Roy Lobb; Experimental Farm, Ottawa, for its two Alberta, John Cross, Geoffery Thomas; British Columbia, Hugh C. Catt.

> Benmore Lady, owned by Jas. O. Harvey, Millet, Alta., produced 6,901 pounds milk, 278 pounds fat, to lead the Shorthorns in the three-year-old. 305-day class of the R.O.P. in January.

. . .

Major J. H. Gainor, M.C., Calgary, superior production to Hays Ltd. of was re-elected president; Miss Mar-Calgary, and Abegweit Milady, world garet McNeill and Jack Farish, both of Calgary, were named vice-president over all ages and breeds, won a similar and honorary secretary-treasurer, re-award for Premier Walter Jones, Spectively, of the Alberta Light Horse Charlottetown, P.E.I. Owners of Ca-Association. W. Earle Robertson and Association. W. Earle Robertson and J. J. Saucier were named a committee of two to plan for the affiliation of outof-town branches with the main body.

G. F. Connell, Regina, was re-elected president of the Saskatchewan Cattle Breeders' Association at the annual in 1945, an increase of three per cent meeting at Regina. J. A. Baskie, Whitewood, is vice-president; C. eridge, secretary, and Miss E. L. Ross, C. Haviland, Wilsonville, Ont., was Regina, treasurer. New directors elected for the two-year term were D. A. Wotherspoon, Melville; C. Roy Wade, Asquith; Wilbur Catley, Craven; Ken Lennox, Gibbs, and George Truswell, Leney.

> Holstein judge for the 1946 Calgary summer exhibition will be Harvey Swartz, Waukesha, Wisconsin, with A. J. Hay, Essondale, B.C., as alternate in case Mr. Swartz is unable to attend. For the Edmonton show, Francis Darcy, also of Waukesha, has been chosen as judge, with Victor Bjorkeland, Red Deer, as alternate. Officials of the Alberta Holstein Association for 1946 are honorary president, Dr. T. E. Hays, Calgary; president, George Gibbs, Edmonton; secretary and fieldman, J. W. Hosford, Edmonton.

The Saskatchewan Percheron Club John R. Atkinson, St. Albert, Alta.; at its annual meeting elected P. G. T. H. Howes, Millet, Alta.; John Smith, Fellows, Broadview, as president, with W. J. McCallum, Brownlee, vice-president and Jonathan Fox, Jr., Lloydminster, secretary.

Twenty-two sows from Western Canthe R.O.P. in December, the four-year. ada qualified for advanced registration old class was led by Sun Dance Sport's during the last four months of 1945. Eleven were in Alberta, two being owned by James Wyllie, Vegreville, and one each by W. J. Anderson, Sug-den; Paul Churchward, Lloydminster; gudo; H. F. Rowe, Duffield; Thos. E. Standring, R.R. 2, Cochrane. Of seven from Manitoba, two were owned by the Dominion Experimental Farm, Brandon, and one each by R. G. Brewer, Ashville; M. J. W. Madge, Virden; Marcel Messe, Genthon; L. P. Norquay, Pigeon Bluff; Carl Roberts, St. Adolphe. The Dominion Experimental Farm, Melfort, Sask., had three and the Dominion Experimental Farm, ported, an increase of 531. The mem- Agassiz, B.C., owned one sow which

One western boar qualified during 2,250, an increase of 129 over 1944. In bred by W. Frelan Wilford, Stavely, registrations, Quebec led with 5,644 Alta., and owned by R. J. Ferguson, North Edmonton.



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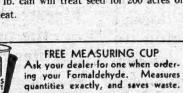


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Growers Paying Heavily For Wheat Export Policy

Not only have Canadian wheat I believe the reason therefor is that the price control measures put into effect during the war years have been fairly effective. I would say here and dress, to the agricultural short the world." course at Lethbridge, on wheat marketing during the war years bitt as follows: and after.

'One feature of government policy which makes wheat producers uneasy, declared Mr. Nesbitt, "is the fixing of a wheat price for domestic consumption at 77% c a bushel in 1942. Previously (in 1940) a processing tax of 15c a bushel was levied on all wheat for domestic consumption. Canadians consume around 50 million bushels a year, and this would mean a tax of $$7\frac{1}{2}$$ million. In 1941 this tax was discontinued to prevent a rise in the price of Wheat for domestic consumption is get a rebate of 47% c. Since this policy has been in effect, government rebates

domestic consumers are still eating bread made from wheat costing them 77% c a bushel. Consequently, consumers are being bonussed at the rate of 77% c a bushel, of which 47% c is paid by the government and 30c contributed by the wheat producers.

"Pursuing the subject further, it should be understood that the bulk of Canadian government. Up until recent months, exports were under a mutual aid policy. Canada's version of 'lend lease,' which meant that the Canadian taxpayer footed the bill. Canadian wheat producers, probably 15 per cent. of the Dominion's population, made curtail wheat seeding their contribution in the form of taxation thereto, as well as directly bonussing Canadian consumers at the rate of 30c a bushel, and contributing a proportionate share of the government's bonus to consumers of 47% c a bushel.

Substantial Sacrifice

"But that is not all," the speaker continued, "an official publication issued by the U.S. department of agriculture showed the value of Canadian wheat for export at Fort William to be 37c less per bushel than export United States wheat of comparable quality at Duluth; so that it can be clearly seen that the prairie farmers are making a substantial sacrifice in accepting the \$1.55 export price.

"To offset the contribution prairie grain producers have been making, the government made such cash contributions as \$102 million for wheat acreage reduction, \$19 million under the Prairie Farm Income enactment, and cash contributions under the Prairie Farm Assistance Act. But the total of all this would not amount to 10c a ed in Ottawa the appointment of J. H. bushel on wheat produced in the Tremblay, from 1930 to 1936 bilingual

widespread protest by prairie farmers, cultural trade commissioner abroad.

during the war and postwar now that prairie farmers will not refood crises, but they have car- main passive in their attitude towards ried a large share of the cost of the present level of grain prices should keeping down the price of bread there be a rise in the general price level. If the goods and services farming canada and are sacrificing a ers must buy are going to rise in price, substantial amount of money in farmers are going to act vigorously to accepting the present export get better prices, not only for their price for wheat, L. D. Nesbitt, wheat, oats, barley, rye and flax, but publicity director of the Alberta for their poultry, dairy and meat products. Canadians have been fed during the war years at prices cheaper than these processings and these processings and these processings are the course of an interesting and these processings are the course of course of an interesting ad- those prevailing in any large nation in

1939		102,910,853	bushels
1940		300,473,465	F , 86
1941		480,129,311	C7 44
1942	*****	423,752,337	44
1943		594,626,019	, 44
1944		356,531,079	, 64
1945		258.394.518	64

Ready for Shipment

The speaker quoted George McIvor, chairman of the Canadian Wheat Board, who said in November: wartime wheat position may be sumbread. Ever since, Canadians have marized by the statement that we been eating bread at bargain prices, reached our maximum stock position at the turning point of the war, and as sold to flour mills at a basic price of the United Nations won through each \$1.25 at the terminal. Then flour mills successive stage of the war Canadian wheat was continuously available in large volume for prompt shipment. No to domestic consumers have totalled other wheat exporting nation could achieve this position during the war. "But that is not all the story. The and consequently there has been a present price of wheat for export is great reliance placed upon Canada in \$1.55 a bushel at the terminal while the greatest crisis in the world's history.

Arguing forcefully against any reopening of the Winnipeg grain exchange, Mr. Nesbitt cited figures showing the large amounts of money, over and above the initial payments, eventually realized on these large stocks of wheat and paid out to the producers on their participation certificates wheat exports are being paid for by the money which would have been realized by the speculators had the grain exchange remained open.

Wheat acreage tables quoted by Mr. Nesbitt show the reduction of Canada's wheat acreage after 1940, resulting from the government bonussing plan to

1938	 25.9	4 4 3	66
1939	 26.7	36	44
1940	 28.7		49
1941	 21.8	1.6	. 64
1942	 21.5	46	
1943	 17.5	8.6	
1944	 23.2	68	. 44
1945	 23.4	44	114

NEW OAT VARIETY

A new variety has been produced by the central experimental farm at Ottawhich Dr. Newman, Dominion Cerealist, has named "Beaver" It is a cross between Erban and Vanguard and is noted in particular for its resistance to stem and leaf rust. A farmer in the VanLeek Hill district of Ontario planted three acres of this new variety of oats and obtained therefrom 200 bushels which he has disposed of at \$1.50 a bushel.

Trade Minister MacKinnon announcprairie provinces during the war years. district agriculturist for the agricul-'Surprising to say, there has been no ture department in Alberta, as an agri-



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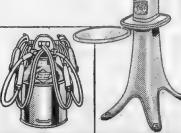
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Advance Plans to Build Co-operative Packing Plant

By C. FRANK STEELE

A TOTAL of \$9,000,000 worth of A cattle and hogs were marlion dollar plant was projected. This
keted in 1945 on the Lethbridge has now been cut down to \$125,000 in railway division. Instead of this line with the Oregon City plant which, volume of livestock being ship. it is planned, will be duplicated here. ped out to distant market centres it is the plan of a large body The old elaborate coil system of coolof growers to establish a cooperative meat packing plant at Lethbridge providing a market

This is the Lethbridge Cooperative Packers Ltd., incorporated last year under the Alberta Co-operative Marketing Act and fully organized. It is the belief of the directors that the plant can be put into operation this year and they are launching a share sales campaign with that in view.

Speaking recently at a packing plant meeting at the Barrhill school, W. W. Scott, recently named a director, stated that the trend in the packing industry in the United States is de-centralization, smaller plants located in the centre of production. "Our method of marketing livestock in this region is out-moded, the proposed packing plant Lethbridge will provide a market right at home for our finished animals. We'll eliminate the loss in shipping," he said.

Just how pronounced the trend to smaller units is in the U.S. is shown by the fact that 11 small, co-operative plants costing up to \$100,000 each have been built in Illinois alone in recent

projected Lethbridge plant The would have a capacity of 350 hogs and 75 to 100 cattle daily. Hogs and cattle would be handled on alternating days.

Rulon Dahl, Raymond, is president of the new co-operative; "Steve" Houlof Lethbridge, manager of the Smith Farms, is vice-president; C. O. Asplund, supervisor of the Lethbridge Central Feeders' Association, is secretary-treasurer and A. W. Stringam of Nemiskam, L. E. Pharis of Magrath, George Ross of St. Kilda, W. S. Johnson of Barnwell, and W. W. Scott, Lethbridge are members of the board of The head office is in Lethbridge and shares are being sold at \$50, the organization itself handling the sale of share memberships.

AT the recent annual meeting of the feeders and others interested company reports were submitted ahead with the present scheme. showing that definite progress had been made in securing a site on trackaround \$125,000, the plan favored being that will be followed up.
one obtained at Portland, Ore., by a
committee of directors who is The plan is to plants on the Pacific coast last fall. It is believed that a small, compact and Davidson Holsteins efficiently managed plant such as is proposed will meet the needs of this Set High Average

In addition to revenue derived from the sale of shares it is announced that the directors have been in contact with the Industrial Development branch of the Bank of Canada and that the industry could be financed up to 50 per cent through that body.

One hundred and seventy or more paid-up shareholders are on the books and the co-operative has over \$16,000 Beverly Wayne Ardith, a second-in capital subscribed. This is held in prize winner at Calgary Exhibition, the bank or in Dominion of Canada went to Glenn L. Bancroft, Flint,

The original price of the shares was der to encourage more farmers to get year-olds at \$800, and \$700, a six-year-into the enterprise. The costs of the old at \$600, and a heifer calf at \$500.

plant have also been revised since the organization was launched. In the early stages of the scheme a half mil-

"You see smaller plants are much more economical to build and operate.



PRESIDENT RULON DAHL

ing is now out. In a plant at Billings, Mont., which we inspected the entire system cost only \$7,500. That is one reason we can lower our sights on the cost of the Lethbridge plant and still have a completely modern and efficient unit," said President Dahl.

Mr. Dahl told shareholders at the recent meeting that a packing house will be built in Lethbridge even if Lethbridge Co-operative Packers not go ahead with their plans, which he felt was a remote possibility indeed judging by the interest through the farming areas.

The labor unrest in the great industrial centres is driving industry into the smaller centres near the source of production, said Mr. Asplund, the supervisor, and that is why "we have every assurance Lethbridge will get a

There is only one co-operative meat packing plant in Canada, located at Barrie, Ont., and its success has encouraged Southern Alberta producers, feeders and others interested to go

Opportunities for barter with the powerful Scottish and English Co-operative Societies are not being over-

A total of \$19,320, for the excellent general average of \$439.09, was re-alized on the sale of 44 head of purebred Holsteins at Guelph, Ont., on Feb. 18, when the "Beverly" herd of the late A. J. Davidson, Edmonton, was sold at auction. This herd, one of the best in Alberta, was shipped down to Guelph to be dispersed.

Mich., at a high figure of \$1,800. Bancroft bought eight head for a total of \$100, but this figure was reduced in or- \$5,135, these including a pair of threeCANADA'S LARGEST ANNUAL

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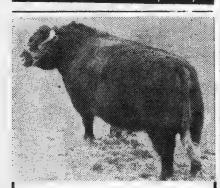
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Record 1141 Entries Listed For 46th Calgary Bull Sale

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OFFICERS and directors of the Alberta Cattle Breeders' Association, preparing for the 46th annual Calgary Bull Sale, announce that this year's entry list of purebred bulls is the largest in the long history of the event. Contributors have entered a total of 1,141 animals, comprising 759 Herefords, 217 Shorthorns and 165 Aberdeen-Angus. Last year, 799 bulls passed through the sale ring for a total of \$364,845. Since its inception in 1901, this annual sale has disposed of 18,944 bulls for a grand total of \$3,776,845.

In view of the exceptionally heavy entry promised for this 453 ENTRIES year's sale, contributors are be- FOR KAMLOOPS ing advised by the management not to bring in animals which SPRING SALE are in any way defective or Rigidly-culled bulls consisting of 95 which are not outstandingly Herefords, 30 Shorthorns and three breed. A culling committee at the grounds will weed out any inferior animals and send them to the stockyards.

Boys' and girls' baby beef classes have brought a list of 47 good calves, 21 of which are Shorthorns, 18 Herefords and 8 Aberdeen-Angus. In addition, 30 single fat animals are entered for the fat CREAMERY FOR BROOKS stock classes, and some 80 selected purebred beef females are being offered for sale.

Baby beef and fat stock classes will be judged on Monday, March 18, and these entries along with the females will be sold that afternoon. All bulls will be judged Tuesday morning, and the sale, starting with Herefords, will commence that afternoon.

In all, 1,088 horses have been entered for the annual spring horse sale to be held March 5, 6 and 7. Contributors to this event have also been warned that there is a good market only for fitted and conditioned. It is believed that there will be some demand for heavier horses for woods work, and a number of eastern buyers are expected to attend.

E. I. Clarke Heads **Edmonton Fair Board**

E. I. Clarke, well-known livestock breeder, has been elected president of Edmonton Exhibition Association, succeeding Lee S. Williams, who occupied the chair during the past three years, when the organization was carried on most successfully through very trying times. R. V. Price is vice-president.

Members of the executive are: Ald. Bisset, Ald. Mitchell, James Paul. Namao: W. C. Bissell, Viking, and Carl Berg; Dr. G. M. Malmas, veterinarian; Thomas E. Gardside, solicitor.

REVIVE INTERNATIONAL

America's largest livestock showthe International Livestock Exposition. -will be held November 30 to December 7, 1946, after a wartime lapse of four years. The last exposition, held in 1941, closed the night before Pearl Harbor, and the show's directors voted several months later to suspend the exposition for the duration of the war.

Three honorable mentions were won Gerben Alcartra Wayne in the four-

good representatives of the Aberdeen-Angus will be offered at the Kamloops bull sale on March 14. On March 13, a total of 325 grain-fitted beef animals of the quality for which this sale is famous, will be auctioned. All the livestock will be judged by Prof. J. W. G. MacEwan, of the University of Saskatchewan. Auctioneers will be Mat. Hassen and Son, Armstrong, and J. W. Durno, Calgary.

A new creamery that may be com-pleted by spring will be built in Brooks by the Southern Alberta Dairy Pool to serve a large area of the Eastern Irrigation District and a considerable adjacent territory.

. . . .

Edmonton Show April 9 - 11

Edmonton Exhibition directors and officials are completing arrangements animals that are well broken and well for three important events on their spring calendar. A heavy entry list is expected for the auction sale of draft and farm horses and pure-bred mares to be held at the exhibition grounds on Tuesday, March 26. Entries close March 25.

> Entries will close on March 9 for the sale of registered bred sows which will be held on April 10.

> April 9-10-11 have been selected as dates for the annual spring livestock show. Entries for the fat stock show and sale and junior calf-feeding competitions will close on March 23. Entry forms, catalogues and other information is available to prospective exhibitors or buyers at the exhibition office at the Arena.

Advocate Specialized Prairie Farm Horse

THE animal husbandry department of the University of Saskatchewan has a program planned to develop a breed of horses which will be suitable to the needs of prairie farmers. While it is recognized that the horse is on the wane, the department maintains that a utility type team will always be useful around the average mixed farm. It plans to propagate middle-weight horses, clean limbed, chestnut in color, full of action, toughness and fertility, and above all versatile.

The type desired is 15.3 hands in by Hays Ltd., Calgary, in the annual height and 1,500 pounds in weight. A All-Canadian contest for Holsteins: team of mares of this type has been found in a cross between Clydesdaleyear-old class; Hays' Hayden Ruth in Hackney stock. Professor Grant Mothe helfer calf class; Beverly Marma Ewen of the department says there Wayne in the class for senior yearling are still a good many jobs on the farm that can be done only by horses.

Edmonton Exhibition

HORSE SALE March 26th **EXHIBITION GROUNDS**

Entries for Auction Sale of Draft and Farm Horses and Purebred Mares Close March 25th.

BULL SALE

APRIL 11th

Bull Sale Entriés Close March 9th.

Sale of Registered Bred Sows, April 10 Entries close March 9.

SPRING SHOW DATES

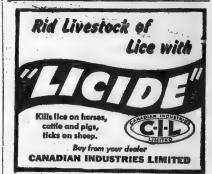
APRIL 9 - 10 - 11

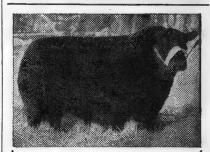
Entries for Fat Stock Show and Sale and Junior Calf Feeding Competitions close March 23rd.

For complete information, Entry Forms and Bull Sale Catalogue write:

EDMONTON EXHIBITION ASSOCIATION LTD.

Arena - Edmonton





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The Canadian Aberdeen-**Angus Association**

215 Harvard Avenue

Winnipeg

Manitoba

Canadian Farm Delegation Will Attend World Parley

A LL sections of the Dominion from Britain, more rigid control over are represented in the delegation which has been chosen by England, for ten days starting stock commissioners May 21 next.

have been under way since the visit of the British farmers' dele-All United Nations which have national farm organizations have been in jects vited to send delegates. The basis of the constitution for a permanent organization of primary producers to be set up as an international federation of agriculture whose activities will be coordinated with the United Nations food and agriculture organization

The delegation which will represent the Canadian Federation of Agriculture, selected at its recent annual convention at London, Ontario, is as fol lows:

H. H. Hannam, president; Parker, Winnipeg, and J. A. Marion, the consumer; that the principle of Montreal, vice-presidents; R. J. Scott. quota deliveries from farm to elevator Belgrave, Ontario; J. H. Wesson, Reprinciple of Malting Barley: Asking for a correction, Alex Mercer, Vancouver; Ben S. Malting Barley: Asking for a correction of the present barley price situation, N.B.; Percy French, Vernon, M.B.; Percy French, M.B.; Percy French, Vernon, M.B.; Percy French, secretary of the Federation. as secre tary of the delegation.

Many matters of vital importance to agriculture in Canada were dealt with beer at the annual convention. Of over-all importance was the resolution respecting equity and security in farm prices This resolution, following the line taken by President Hannam, in his an chase of wheat for milling nual address, expressed the concern of considered to be the total of price plus ments subsidies. Upon this basis the resolu tion urged upon the federal govern mental part of Canada's fiscal policy Other resolutions dealt with the follow ing subjects:

Farm Income Tax: Requesting par ticular attention to a number of in equalities in the application of the present income tax act to farmers, and requesting also the setting up of an arbitration board as a simple and inex pensive means of adjusting disputes

Sale of Surplus War Assets: Requesting continuation of the present policy of sales of trucks direct to farmers, and an expansion of the policy to include other materials of use to agriculture.

Dominion Marketing Act: Repeating former requests for enactment of a suitable Dominion marketing act.

Dairy Products: Recommendations from the Dairy Farmers of Canada for a four-cent increase in the floor price of butter and for increased returns to enable farmers to compete suitably with industry for labor necessary on the farms

Revision of Federal Hog Policy: civil services Asking for a revision of the hog policy providing for an upward adjustment of the price of becon hogs, a broad pro in breeding and disease control, de provinces. An output of 7,328,000 velopment of export markets aside nounds was valued at \$1,253,133

Livestock Policies: Resolutions asking for development of a long-term the Canadian Federation of livestock production policy, with floor Agriculture to attend the inter- prices for five years; export of surplus national conference of farm or cattle to the U.S.; an investigation of ganizations to be held in London, the spread in meat prices; and repeti-

Soil Conservation: Requesting a The conference is an out-national soil conservation policy to exgrowth of negotiations which tend the benefits of the P.F.R.A. act to all provinces, particularly to assist in purchase of power equipment for surface and under-drainage work on gation to Canada last spring. farms and assistance for restoration of dykelands and for special drainage pro-

Resolutions on Wheat: Asking that deliberations at the conference will be the Canadian Wheat Board be the sole agency for marketing all cereal crops; asking for an initial payment of \$1 per bushel on wheat instead of the 90c now included in the Wheat Board Act; that the initial price for 1946 wheat be not less than \$1.25 per bushel; that the government give aggressive leadership in working out an international wheat agreement to include national quotas to fit supply to demand, minimum prices to protect the producer, maximum prices to protect

B.C.; R. S. Law, Winnipeg; R. H. M developed special grades of malting Bailey, Edmonton; with C. G. Groff, barley from securing full benefit of redeveloped special grades of malting turns for such barley

Tax on Malt: Asking that the present excise tax on malt be transferred to

Millers' Drawback on Wheat! Asking for an adjustment of the inequity to producers existing as a result of the drawback permitted millers in the pur-

Crop Insurance: Urging the necess farmers respecting the future position ity of a crop insurance scheme the of prices and laid down the principle administration of which to be financed that the farmer's basic price should be by the federal and provincial govern-

Farm Labor: Asking continuance this year of the farm labor service of ment the establishment and mainten the federal and provincial governments; urging the necessity of higher ance of equality for agriculture in a ments; urging the necessity of higher balanced national economy as a funda returns to farmers to permit them to secure the farm labor necessary to carry out the production program

Indian Welfare: Urging improvement of conditions among the Indians of Canada, particularly with respect to improved educational facilities, provis ion for old age pensions and other matters

Old Age Pensions: Recommending pensions for all citizens of 65, irrespective of the pensioner's financial position

Pensions for the Blind: Urging pro vision of pensions for the blind at the first moment they are required, without any period of domicile or other conditions.

Gasoline Tax: Asking removal of the tederal tax on gasoline used for agricultural purposes in tractors

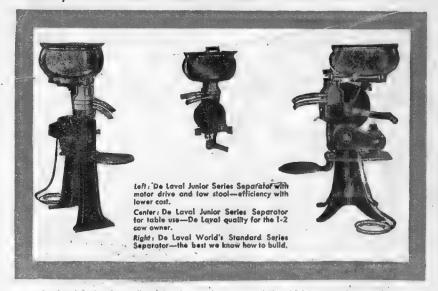
Farmers' Holiday: Asking establishment of June 2 as a national farmers holiday

Salaries of Civil Service Workers in Agriculture: Urging improvement of the salary conditions of agricultural workers in both federal and provincial

Saskatchewan honey production in gram of research and experimentation 1945 led that of all other Canadian



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The De Laval World's Standard Series leads the world in performance, quality and convenience. Four sizes—400, 550, 800 and 1150 lbs. of milk per hour. All sizes can be motor-driven.

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From the smallest table model at lowest cost to the largest capacity De Laval Separator, each offers De Laval quality, cleanest skimming, longest life, easiest operation and lowest cost per year of year cost per year of use.

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Use of Grasses in Crop Rotation Plan Restores Soil Fertility, Controls Weeds

By R. H. ANDERSON Dominion Experimental Station. Melfort, Sask.

ROWING of grasses and le-GROWING OI grasses and 10-gumes is an essential part March 5 — Alberta Horse Breeders' Association annual meeting, Calof the farm program in Northeastern Saskatchewan and this should be one of the most important features on every farm. The beneficial effects from grasses and legumes included in crop rotations is becoming more evident as the soil fibre disappears, the fertility becomes depleted, the weed problem increases and production costs become greater.

Results of experiments on the illustration stations definitely prove that the alternating mixtures of grasses and legumes with grain crops and periodic summerfallows gives greater yields than alternating grain and summer-fallow. Over a nine-year period at one station wheat after fallow in a straight grain rotation has given an average yield of 23.5 bushels per acre while wheat after forage crops in a rotation without fallow has yielded 26.8 bushels per acre. Forage crop mixtures add fibre to the soil and in turn help to maintain and improve fertility and soil structure, all of which are important in the control of soil erosion, increased production and water-holding capacity.

Crop rotations which include grasses and legumes are an aid in controlling May 7-11—Light horse show, Edmonmany of the most troublesome annual and perennial weeds. More effective control is obtained where the land is left in sod for more than one year and the growing of two or more crops re duces cultivation and most production costs. Forage crops in rotation also reduce the necessity of frequent summerfallowing. A mixture of alfalfa and brome grass seeded down for two or more years in rotations has eradicated Strength of Shells Canada thistle and has materially reduced wild oat infestations.

Farm planning is simplified once a good rotation is established. The length and type of rotation to be established depends on many factors such as soil fertility, soil erosion, weeds and power available. Further information on grasses and legumes in rotations for your own specific area may be obtained from the nearest Dominion Experimental Farm or Station.

Big Irrigation Plan Considered Feasible

hub of a great power and irrigation scheme for Saskatchewan now is considered feasible, E. L. Gray of the P.F.R.A. said recently at Regina.

Extensive drilling and surveys had located a site where a giant dam could be built at the upper reaches of the Qu'Appelle and Saskatchewan rivers near Elbow. The cost could be anywhere between \$3 million and \$30 million, he said. Such a project also would generate more than twice the province's present total power production

Prof. J. S. Shoemaker, of the Department of Horticulture at the University of Alberta, has accepted an appointment as professor of horticulture and head of that department at the Ontario Agricultural College, Guelph.

IMPORTANT DATES ON THE CALENDAR

March 5 · 7 — Horse sale, Calgary.

March 7 — Horse sale, Brandon.

March 9 — Horse sale, Red Deer.

March 12 - 14 — Bull sale and fat stock show, Kamloops.

March 12 · 15 — Horse sale, Lacombe. March 15 — Alberta Junior Seed Fair, Olds, Alta.

March 18 - 22 - Calgary bull sale and fat stock show.

March 18 — Alberta Aberdeen-Angus Breeders' annual meeting, Calgary.

March 19 - Alberta Cattle Breeders' Association annual meeting, Calgary.

March 21 - Canadian Aberdeen-Angus Association annual meeting, Cal-

March 26 - Horse sale, Edmonton. March 27 - Bred sow sale, Regina.

March 27 · 29 — Regina bull sale.

April 2 · 4 — Manitoba winter fair, bull sale, horse show, poultry show, seed fair, fat stock show, Brandon.

April 5-Horse sale, Saskatoon.

April 9 - 11 — Edmonton bull sale and fat stock show.

April 24 - 27 - Light horse show, Regina.

May 1 - 4-Light horse show, Calgary. ton.

- Breeding and fat cattle sale, North Battleford.

May 31-June 1-Saskatoon fat stock show and sale.

June 7 - 8 — Fat stock show and bull sale, Prince Albert.

Is Important Egg Factor

HE importance of trying in every way possible to improve the qualof shell strength is shown in the fact that the greatest single loss factor in exports to Britain of shell eggs has been that of breakage.

Shell strength, like egg numbers, is affected by so many factors such as feeding and environment, that it is difficult to determine the exact influence of heredity. However, enough information is available to show that shell strength is very important and can be used to improve the general level of poultry flocks by helping to obtain: 1. Improved hatchability; 2. Lower chick mortality; 3. Fewer culls Construction of a dam on the South in rearing; 4. Lower adult mortality; Saskatchewan river near Elbow as the 5. Greater egg production; 6. Improved egg quality.

The specific gravity test applied to eggs for incubation has been largely used to date for this work, and will satisfy the small flock owner. The salt solution should be made up to a strength that will eliminate, by floating, approximately 15 per cent of eggs tested. Care should be taken to see that eggs are well rinsed off in lukewarm water after testing.

At the Kentville, N.S., Station, an apparatus has been devised, known as penetrometer, which directly determines the shell strength, but this apparatus has not yet been commercial-

In the United States a farm worker's income tax is not deducted at the source and each worker is held responsible for paying his own tax.

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Money?

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- * CHOOSING THE SEED
- * TREATING THE SEED
- * EARLY PLANTING
- * KEEPING OUT THE WEEDS
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- * VITAL ROLE OF FLAX IN CANADIAN INDUSTRY
- * NEW MARKETS FOR FLAX STRAW

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It's the lowest cost system we know of! No getting up at nights to see if chicks are warm! Safe! Sanitary—no more crowding and piling up! Built at home quickly, easily from simple plans any 15-year-old boy can understand using scrap lumber, old packing esses, or new humber if desired. Plans and heating system furnished to right \$4.75 postpaid. Investigate this astonishing liveution now—before your chicks arrive! We ship prepaid and handle all custom details.

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Precaution Must Be Taken to Keep Restricted Areas Free of Tuberculosis

FARMERS and others residing in Restricted Areas find it necessary from time to time to bring in cattle from districts where testing for tuberculosis has not been undertaken. Most Cost of milk production is always of interest. At the Lethbridge exfarmers in a Restricted Area perimental station an accurate record know that before bringing cattle is kept of all the feed required both into the district, a permit from a veterinary inspector must be obtained.

There are some, however, who seem to disregard this important requirement, which later results in a great deal of inconvenience both to themselves and to the Dominion Health of Animals Branch. To avoid this, new purchases of untested cattle should be tested for T.B. before their removal into a Tuberculosis Restricted Area. An exception is made in connection with steers or heifers of feeder type, which must be accompanied on entering the district by a license signed by a veterinary inspector, and must be isolated from other cattle and tuberculin tested by a veterinary inspector on arrival at their destination. A permit only is required to bring in cattle which were tested in other districts.

For T. B. test and permit, application should be made to the Veterinary Inspector, Dominion Health of Animals Branch, Public Building, Calgary; or to the Post Office Building, South Edmonton. This service is free of charge. When applying for permit, name and address of original owner should be given, as well as ear tag numbers of all cattle to be moved.

Before bringing cattle into any Tuberculosis Restricted Area, other than to an approved slaughterhouse for immediate slaughter, it is the responsibility of the trucker to make sure that he received from the purchaser of the cattle a permit or certificate signed by a veterinary inspector to the effect that such cattle may legally enter the area. Posters have been supplied by the Livestock Branch to be displayed at all roads leading into Restricted Areas in an endeavour to mark the boundaries. Since a truck driver is expected to be familiar with the rules and regulations pertaining to Restricted Areas no excuse of ignorance can be accepted, authorities point out

M. D. Stettler, No. 54; M.D Camrose, No. 63; M.D. Lamont, No. 82, and M.D. Strathcona, No. 83. Truckers not familiar with the regulations should enquire from the secretary of any of these municipalities before trucking cattle into the area

C. C. Dunham, Fairlight, was elected president of the Saskatchewan Clydesdale Club. J. K. L. McLeish, Moosomin, was chosen vice-president. Peter Taylor is secretary-treasurer. Robert Sinton, Regina, and Mrs. Stutt were elected honorary officers. Directors are Smith Stein, Arcola; Mrs. K. B. Directors Taylor, Arcola; A. Linton, Tuxford; W. Campbell, Findlater; A. C. Leslie, authorities to sheep raisers. The reason Watrous; Jack Stutt, Vandura; C. C. T. Robertson, Bradwell; Wm. Fleming, Drinkwater; David Murray, Young; W. H. Gibson, Indian Head

The pheasant hatchery at Brooks will be doubled in size. Last year about 4,000 pheasant hatched at Brooks were distributed through the province. The new plant capacity will be 12,000 eggs annually.

Milk Production Costs Important

OST of milk production is always of COST of milk production and interest. At the Lethbridge exfor the dry period and the actual milking period of the cows in the herd. During 1945 the average feed cost for producing 100 pounds of milk was 74 cents, and the average feed cost for each pound of butterfat produced was 20 cents.

This was based on current values of the feed used and was slightly higher To this than in the previous year. must be added the feed cost of maintaining the herd sires and developing calves and young stock.

It becomes evident then that the cost of feed becomes an important item in total cost of milk produced. Therefore, any cow that is not producing a liberal amount of milk cannot be expected to pay for feed and other costs. The greater the amount of milk produced by a cow, the less will be the cost per 100 pounds.

Good Overseas Demand For Wool Likely

A recent report from Bradford, England, to Canadian Co-operative Wool Growers Ltd., emphasizes the fact that "the only limiting factor to increased consumption in this country and most parts of Continental Europe will be the rate at which workers become available for industry as the potential demand for wool goods is regarded as larger than available resources are likely to satisfy for some years to come."

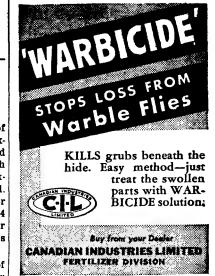
In Britain, wool workers are returning to the industry at a rate of about 500 per week and, though there is a simultaneous retirement of older workers, there can be no doubt that the rate of wool consumption in the United Kingdom is moving ahead. The next few months may well see the volume of wool passing thorough British machinery at a point unequalled since the early months of the war. There are still serious shortages in the British clothing position but, along with the Tuberculosis Restricted Areas in Al-satisfaction of these, will go increased berta include: M. D. Starland, No 47; allocations to export trade.

France, Belgium, Holland and Italy all are planning substantial wool import programs. France alone may well import up to a million bales during the current year, says the report, and there seems little doubt that Continental Europe's wool consumption will increase sharply as soon as a seasonal fuel shortage is sufficiently eased to permit normal operation of plants.

Dogs May Infect Sheep With Parasites

KEEP dogs out of sheep pastures is a suggestion offered by veterinary is that dogs are frequently carriers of tapeworms and can bring the worm eggs into pastures, where they will be picked up by grazing sheep.

Recently at one place in the United States, 164 sheep out of 429 were condemned by government meat inspectors because of tapeworm cysts. In checking, it was found that the infestation had been carried to the sheep pasture by dogs.



Rupture Troubles Ended

Chousands healed by our advanced method leg straps, no elastic, no plasters. No press bips or spine. Flexo pad. Different frothers. Endorsed by doctors, mechanics, everywhere. Very light, HEXPER GUARANTEED. Write for information and

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rseys are admittedly the most economical ducers of butter fat. Get the facts. Write C FVANS. Chilliwack, B.C., fieldman, or

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News Items of Interest

IN a majority judgment of the Supreme Court of Canada handed down on February 20 it was held that the federal government has the power to deport between 10,000 and 15,000 of the 24,000 Japanese in Canada. minority judgment by two members of the court held that the government has authority to deport Japanese nationals. British subjects of Japanese origin and Canadian-born Japanese who requested they be sent to Japan but has not authority to deport the wives and children of men in these three classes.

The 25,000 army and 10,000 air force according to Ottawa announcements.

The Queen Elizabeth sailed from England on February 15, with 10,000 Canadian soldiers and airmen on board, on her last trip before she will be refitted for luxury civilian travel.

The Canadian Army's "Muskox" expedition, testing equipment, gathering climatic, navigational and other data, left Churchill, Man., in February, on a 3,130-mile semi-circular trek leading northwesterly through Arctic wastes then southwesterly to end up in Edmonton in mid-May. It consisted of 42 Canadian soldiers and civilian scientists, together with one British and five United States observers.

Control of Gander and Botwood air bases in Newfoundland, built and used extensively by the R.C.A.F. during the war, is to be returned to Newfoundland. The Goose Bay airport, in La brador, was leased to Canada for military purposes for 99 years in an agreement reached some time ago.

United Nations security council in London adjourned after thus handling four major issues: (1) agreed to allow Russia and Iran to settle by direct negotiation the Azerbaijan disagreement; (2) issued a non-commital statement that the case had been heard and the matter was closed, concerning Russia's protest against the presence of British troops in Greece: (3) rejected Soviet Ukraine charges that British forces in Indonesia endangered world peace; (4) voted for the U.S. proposal that direct negotiations be permitted between the countries concerned, to settle the demand by Syria and Lebanon that French and British troops be withdrawn—this proposal then was vetoed by Russia.

U.S. Secretary of Interior Ickes resigned, bitterly attacking President Truman for continued support of Edward W. Pauley for assistant secretary of the Navy. Ickes had testified that Pauley, a California oilman, had suggested oil concessions by the federal government in return for donations to Democratic party funds by oil interests.

The United States steel strike ended mid-February with $18\frac{1}{2}$ cents hourly increases to the 750,000 workers and with a \$5 per ton increase in steel price, after President Truman announced a higher wage-price policy. Many lesser strikes were settled on a similar basis, but the work stoppage of 175,000 General Motors employees continued.

British naval forces quelled an Indian Navy revolt in Bombay harbor, but civilian disturbances continued in cal anrest combined with threatening 007,000 in 1944. famine

was uncovered. Two supreme court pounds in 1944. justices were appointed to a royal increased to 245,231,000 pounds from years for title. commission to reaching operations.

Lt.-Gen. Yamashita, commander of Japanese forces guilty of wholesale Veterans Land Act was hanged as a war criminal February 23.

1945 Butter Output Reduced 2 Per Cent

troops comprising the Canadian occu- 293,541,000 pounds, a decline of nearly Review, may have left a misleading im- ble pest, it means no harm. It is just pation force in Germany will be with- two per cent from the 1944 output of pression. The sentence was "He ob- careless and forgetful. If it would only drawn commencing the end of March, 298,777,000 pounds, the Dominion Burtains clear title to the land after 10 remember to stamp out its cigarette-

ombay, as India seethed with politic cent to 184,452,000 pounds from 186, tain title after 10 years if he com-

Combined output of concentrated 45,645,000.

Provisions Clarified

H Allam, Edmonton, district super-PRODUCTION of creamery butter in ans on New Farms", contained in the ed matches, glowing cigarette-ends and 1945 in Canada amounted to January issue of the Farm and Ranch hot pipe ashes. Although it is a terri-

pletes the agreement"

"To obtain the subsidy under the milk products in 1945 totalled 300,439, act, the veteran must live on the land A Russian spy ring within Canada 000 pounds compared with 281,385,000 for 10 years," Mr. Allam explains. "If Whole-milk products he pays off before, he must still wait 10 if at the end of 10 investigate its far- 234,753,000 in 1944 and milk by-pro- years he still owes on the contract, ducts were 54,591,000 pounds against which can run for 25 years, no title can be issued until full payment has been made."

A CARELESS PEST

Even when a crop is snug in a good stack or barn, there remains the risk of fire caused by "a careless smoker" who can be classed as a pest. This intendent for Alberta of the Dominion pest has no season It appears at any Veterans' Land Act, has pointed out time of the year and every year. The that one sentence contained in the female of the species is as destructive article, "Weather Delays Placing Veter as the male It leaves behind it lighteau of Statistics reports. Production years of living up to his agreement" ends, matches and pipe ashes, much of cheddar cheese increased 2.5 per which should have read "He may ob- food would be saved for the nation.



And help us carry on this work that MUST be done

Crippled children throughout Alberta have been helped for a quarter of a Crippled children throughout Alberta have been helped for a quarter of a century by the Red Cross. Nearly five thousand have been given treatment at the Junior Red Cross Crippled Children's Hospital. This care includes the finest medical, surgical and dental skill, teaching in their school subjects by qualified teachers, instruction in handicrafts and other pastimes to keep the little patients interested and happy—AND IT'S ALL FREE TO THOSE WHO NEED IT. A new hospital is about to be built to give greater facilities for restoring health and strength to these little deformed bodies. Will you help to give a crippled child a chance to run and play and have a happy and useful life?

200,000 memberships are needed in Alberta The need for blood donor clinics and blood banks is not over. While the terrible demands of the battlefield are mercifully at an end, there are still lives to be saved in our own communities by blood transfusions. The Red Cross plans to maintain clinics to make this life-saving service freely available to our own citizens when the emergency arises. One million dollars will be required to provide this free service to civilians in Canada.

Training our citizens in first-aid and home nursing — instructing our junior members (42,225 of them in 1,693 branches in Alberta's schools) in health, safety methods and good citizenship—helping and visiting our wounded veterans—ever ready with relief and comfort in disaster—these are some of the services that demand a strong Red Cross in peacetime too.

CROSS NEEDS THE RED

Won't you add your membership to aid this great work? A subscription of one dollar or more entitles you to membership in the Canadian Red Cross Society and a share in its great work for humanity. If a Red Cross canvasser has not called on you, you may send your subscription direct to—

CANADIAN RED CROSS SOCIETY, ALBERTA DIVISION, 1504 First Street East, CALGARY, ALTA. An acknowledgement and membership card will be mailed to you promptly.

Keep the Farm Horse Working Efficiently

By PROFESSOR J. P. SACKVILLE Department of Animal Science University of Alberta

not shared in the upward trend operating with horses. in demand and price that has prevailed during the past few



turers of farm implements cent in cost of feeding farm horses. have done a good job in provid- THE amount of feeds fed to farm ing mechanical power, especially horses should be limited to no farm tractors that are adapted more than will keep them in good for practically any class of work, a horse that is underfed, poorly cared and in this connection have con- for and unthrifty cannot be expected tributed in no small way in to do a full day's work or continue as the demand for agricultural products an efficient machine throughout the that has existed recently.

met by those who depend largely on to this, which could be profitably made

sizes the need of leaving nothing unis wasteful of man hours and increases farms weighed between 1,275 and 1,475 done in order to meet this situation. the cost of horse power. This brings up the question of ways RAFT horses are the only class and means that might be considered mately 3,000 horses on 258 farms, inof farm livestock that have with a view to reducing the cost of

sion and the Canadian Pioneer Probyears. Tractors and trucks can lems Committee some years ago in Alalways be substituted to a large berta and Saskatchewan reveals some extent for interesting and practical information quate, it should not exceed \$40 to \$50 horses as a related to the economic use of horses.

norses as a Cost of feed, as would be expected, is source of farm the largest single item of cost and power. This ranges from 46 to 59 per cent of total places the annual charges. There is possibly a work. This means that only a suffi-horse in a greater waste of feed with horses than cient number of horses should be kept somewhat dif- it has been observed that when feed is ferent position plentiful considerably more is offered from that of than is actually consumed and fremost other quently in excess of what is good for farm animals. the horse It is estimated that the exercise of reasonable judgment would The manufac- result in a saving of from 10 to 20 per

working season. Admitting the need of The stiff competition that has to be proper care, any time spent in addition

The time spent in caring for approxi- ed over 1.575 pounds. cluded in the survey to which reference has already been made, was 48 The results of a survey sponsored man hours per horse per year. This jointly by the Federal Economics Divi-represented between 25 and 30 per cent of the total cost in maintaining a horse. It is pointed out that while stable accommodation should be adeper work horse in value.

For most efficient use of horsepower consideration should be given to the number of hours per year a horse is at to do satisfactorily the work required on the farm. Too many idle horses increases the cost of performing farm work. In other words, the actual number of hours a horse is at work during the year has a direct bearing on the cost per horsepower. In the case of one group of farms where the number of hours per year that horses were in use ranged from 351 to 500 hours, the cost per hour was between 14 and 15 cents compared to a cost per hour of 61/2 cents on those farms where the horses at work ranged from 800 to 1.165.

Should Work 650 Hours
It is estimated that sufficient productive work should be available to give each horse at least 650 hours of work per year. In order to accomplish this, no more horses should be kept than one for each 25 to 35 acres of land under cultivation to be worked by horses, depending on the type of soil and the intensity of agriculture being carried on. Following a crop retation which permits a longer seeding season and partially preparing a seed bed in the fall so as to leave a minimum amount of work in the spring will result in a reduction in the number of horses required.

The question of the size and type of horse that is best adapted for farm work is one upon which there is considerable difference of opinion. In one district in Central Alberta devoted largely to mixed farming, it was found

draft horses for farm work, empha-use of doing other work on the farm, that 68 per cent of the horses in use or pounds and less than 5 per cent weigh-

> A rather extensive investigation was undertaken in twelve mid-western states in 1936, seeking knowledge on the kind of work horses most popular on the farm in this section of the United States. Where a farmer was found who declared he had a horse that just suited him it was led out for measurements and inspection. It is interesting to note that a total of only 243 work horses of the many examined qualified as an ideal farm horse: average height of 70 per cent-of those selected was from 15 to 16 hands and from 1,400 to 1,550 pounds in weight.

Attractive Coat Is Important

By PROFESSOR J. P. SACKVILLE

NE of the problems that is of more than ordinary concern to beef cattle breeders who are preparing cattle for the spring shows and sales, is that of retaining a full coat of hair during the later winter months.

The advantage in favor of an animal carrying a thick, uniform covering of good quality hair compared to one that has started to shed and shows bare spots is fully appreciated by cattlemen. This difference is usually reflected in the standing in the show and the price received in the sale ring.

Weather conditions have a direct influence on this matter of preserving the hair. Prolonged mild spells result in shedding of the coat. This is especially true when cattle are confined to close quarters which lack ventilation. Keeping them out of doors 24 hours a day will help.

Freedom from lice and a clean. healthy skin are possibly the greatest factors in relation to maintaining the desired condition. This stops rubbing to a large extent-one of the main causes of losing hair. Frequent washing, once a month if possible, using a standard cattle dip, is most effective This may present a problem during cold winter weather unless provision is made for proper protection immediately following washing it may be possible, however, to select a mild spell when the job may be done without tak-ing too much risk lnsect powder may be applied as a substitute for washing when this is out of the question

McIntyre Pays \$2,250 For Texas Hereford Bull

The McIntyre ranch, Magrath, Alta., bought a Hereford bull, Advance A Jr. Domino 48th, for \$2,250 at the National Western stock show at Denver. from Alfred Meeks, Dalhart, Texas.

W. A. Crawford-Frost, Nanton, sold two heifers by Silver Standard: Lady Riskmore 44th, which stood 13th in a large class of junior yearlings, for \$2,050 and Fuchsie Standard, for \$850.

Mr. McIntyre said average bull prices were higher than last year, and the southern cattlemen appeared confident of the future; 98 Hereford bulls averaged \$2.040 and 57 females, \$1,417 Top-price bull sold for \$16,500.

ELECTRIFY your Farm with a FARM IMPROVEMENT LOAN



What you can do with a FARM IMPROVEMENT LOAN

You can buy implements and equipment; buy, install, extend or improve a farm electric system; build, repair, extend or improve farm homes and other buildings; construct fences, drainage systems, shelter belts and make other improvements to farm property. For full par-ticulars ask at any branch for our booklet, "FARM IM-PROVEMENT LOANS".



Electricity can take the drudgery out of many a farm chore—save you time and money—help make life pleasanter and easier for everyone in the family.

Plan now to electrify your farm with a Farm Improvement Loan. At any branch of The Royal Bank of Canada, loans are available to farmers for the purchase, installation or improvement of farm electric systems. These loans can now be made on security of the equipment itself and repayment arranged by convenient instalments. If electrical equipment is still hard to get in your district, you can make a start by doing your preliminary wiring. Wire, switch boxes, transformers, etc. are available in many districts. By starting now you will be ready to put electricity to work on your farm as equipment comes on the market. Talk your plans over with the Manager of our nearest branch.

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SERVICE and QUALITY

General Merchandise at Branch Stores throughout Alberta and a full line

of

Maple Leaf Gasoline and Oils

at agencies of

U.F.A. Central Co-operative

125 - 11th Avenue E., Calgary and Branches

Record Price For Shorthorn

Mary Mark

The world record price for any breed of cattle, \$61,335, was paid for a "IT'S warble time right now," and Shorthorn bull at Perth, Scotland, on steps should be taken at once to Feb. 12. The bull, Supreme Champion animal started at \$4,230.

the Bunchrew, Inverness, herd of D. P. MacGillivray.

nadian and American breeders were sprayer. among the buyers.

Holden Short Course Told of Necessity For Soil Conservation

The annual short course at Holden, Alberta, sponsored by the Holden Chamber of Commerce and agricultural service board, was attended by some 150 people.

Dr. J. D. Newton, department of University of Alberta, pointed out that from a survey in the Holden area: which is about 60 miles southeast of Edmonton, it was determined that hausted. The present method of farming will further deteriorate the soil beginners he recommended a six-year rotation of summerfallow, three crops that a 30-bushel crop of wheat extracts at least 60 pounds of nitrogen and 20 pounds of phosphorus per acre. felt that the farmers have reached a stage where the soil must be saved by use of grass and legume rotation to prevent water and wind erosion.

Other speakers included Horace Soley, president of the Holden Chamber of Commerce, who welcomed the visitors; B. T. Stephanson, agricultural engineer; C. W. Traves, Alberta poultry commissioner, and his assistant, Mr. McDaniel; P. D. Hargraves, superintendent of Brooks horticultural staculturist at Hughenden, who spoke on weed control; A. W. Moisey, district agriculturist at Ryley, who gave a talk on feeding and marketing trends of beef cattle

Low Butter Stocks Mean Smaller Ration

The butter ration in Canada will be reduced during March and April from the previous six ounces per person per week to four ounces. Restaurants and other quota users also had their butter rations reduced.

Stocks of creamery butter in cold storage, dairy factories and in transit at Feb. 1 totalled 22,988,297, compared with 36,228,503 pounds at January 1 and 30,625,729 at February 1, 1945

Holdings of cheese also were lower-24,194,529 pounds compared with 32, 499,197 a year earlier. Stocks of evaporated whole milk held for or by manufacturers February 1 were 11,227, 666 pounds as against 22,837,615 pounds on the same date in 1945

EARLY ACTION URGED AGAINST THE WARBLE FLY

make that district a warble-free area, Pittodri Upright, was bought by Hugh McPhail told a good attendance Ralph L. Smith of Snyder, Missouri, of farmers at the agricultural short from R. Laidlaw Smith, Pitcaple, Abercourse held at Olds. He appealed to deenshire, Scotland. Bidding for the stockmen to help in stamping out this pest which costs Canada an estimated At the heifer sale, the Missourian \$14,000,000 annually. An animal could paid more than \$40,000 for a lot which be rid of the nuisance at a cost of included Champion Rosetta Alpha from three cents by applying a derris wash with a brush, and for large herds or community action a power sprayer was At the same sale, the well-known recommended. A good start in this Alberta Shorthorn breeder, J. W. Mc-direction had been made in the Madden Collister of Dalroy, bought the bull, district last season, and the work will Fairnighton Cashier, from the Fair- be continued through the membership nighton Estates for 1,650 guineas (ap- of calf clubs. The Westcott Calf Club proximately \$7,794). Several other Ca- has recently purchased a power

W. G. LeMaistre, provincial apiarist, spoke on the care and management of package bees, suggesting feeding during the interim between dying off of dandelions and blooming of clovers, to prevent the hive from weakening at this time.

Prof. J. P. Sackville, University of Alberta, spoke on the future of agriculture in Canada at a luncheon arranged by the Hammer Rural Ladies' Aid, and later spoke on cover crops and finishing beef cattle.

Dr. P. R. Talbot, Provincial veterinarian, said a great many livestock troubles could be traced to poor feed. Moulds had proved fatal in some herds. He said vaccination for shipping fever at least one-quarter of the natural soil should become regular practice, and fertility in the district has been ex. must be done each year since this does not immunize for life. He also advised vaccination for blackleg, at one unless the farmers include grass and month and again at six months. He legumes in their crop rotation. For said iodine was deficient in many districts in Western Alberta.

E. C. Hallman, supervisor of farmof grain, followed by two years of stead planning, gave an illustrated lec-alfalfa and grass mixture. He said ture on this subject at an evening meeting. Bruce Martin, who is in charge of the rural electrification test area at Olds, spoke on rural electrification in Alberta.

New De Laval Truck Permits Fast Milking

The De Laval Separator Company has recently announced the addition of a new milking truck to its line of dairy equipment. The new De Laval speedway milking truck was developed as the result of the widespread adoption; Mr. Townley-Smith, district agri-tion of the De Laval speedway method of fast milking. This milking program calls for systematic, timed milking on a regular schedule and a few easy steps to follow preparatory to the actual milking. These consist of washing the udder with a clean cloth which has been immersed in a warm chlorine solution and the use of the strip cup.

The milking truck comes equipped with a strip cup and four enameled pails to accommodate clean towels, chlorine solution, hot water and udder towels. : As the milking progresses, the truck can be easily moved down the line thus placing all the necessary equipment within arm's reach of the operator.

Equipped with strong rubber tired steel wheels and of rugged tubular construction the truck has an additional feature as it can also be used to carry four De Laval milker units or milker

Clerk: "Here's a pretty card with a lovely sentiment: 'To the only girl I ever loved

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CALGARY

HIGH LIVABILITY ON FUL-O-PEP



A view of the Whitred Poultry Farm, Hastings, Ont.

Hastings, Ont.

Gentlemen:

Quaker Ful-O-Pep
Chick Starter promotes
rapid healthy growth and
high livability. Another
outstanding, feature of
Ful-O-Pep is the great
amount of yellow pigment it gives my pullets.
We have used Quaker
for a number of years and
find it the best we have
ever used and recommend it highly.

(signed)
W. C. WHITRED, Whitred Poultry Farm.

HIGH LIVABILITY ... RAPID SOUND GROWTH ON FUL-O-PEP

High livability is of great importance. Every chick that dies is a direct financial loss. Chicks that fail to thrive and grow rapidly and sound are also not good investments. Yes, prominent poultrymen like Mr. W. C. Whitred, a breederhatchery man who works with White Leghorns, Barred Rocks and Hampshire Reds, use the feed that produces the results, Quaker Ful-O-Pep Chick Starter.

So, this year start your chicks on Quaker Ful-O-Pep Chick Starter, the feed recommended by prominent poultrymen across the Dominion.

-chicks started and raised to maturity the Ful-O-Pep Way are big-ger, stronger . . . the kind that lay more eggs, and stay strong and productive for several years.

See your local Ful-O-Pep Dealer and ask for your free copy of the valuable booklet "Raise Sound Profitable Pullets this year," or mail this coupon today!

FREE: MAIL TODAY

THE QUAKER OATS COMPANY OF CANADA LIMITED, Peterborough, Ont., Saskatoon, Sask.

Please rush my FREE copy of the NEW 1946 Ful-O-Pep Chick Book on how to grow livable, profitable pullets and yet save up to 50% on feed costs.

Town.....Prov.......Prov.

in crease the wages

of labor?

The Institute ren-

WRONG impression seems to be abroad concerning the action taken at our recent convention on the proposed merger of the three farm organizations — United Farmers of Alberta, Alberta Farmers' Union and Alberta Federation of Agriculture.

The facts are that our U.F.A. to board has been in United Farmers of Alberta will con- THE Alberta government, according structed to proceed with tinue as such for 1946. The U.F.A. as T to report, will introduce legislation Continue plans for the bringing about of this merger

which calls for meetings of committees of all three bodies in joint session to care determine a basis for the merger. Although provision was made in the We though provision was made in the We have appreciated the many kind resolution which passed the conventions said about our organization For Farmers year to complete. In any event the ince.-Eileen Birch, Secretary.



locals, has many commercial and property interests which have to be taken unfair to apply the new legislation care of before the merger can take

tions of all three bodies for a special since the above action was taken, but

convention to be called, it is neverthes wish to let your readers know that the construction or other work. Farmers less felt that the process of accomplish- United Farmers of Alberta is still con- are entitled to a forty-hour week if ing the merger will take at least one tinuing its work throughout the prov- other workers are to enjoy same.

an organization, including central and providing for a forty-hour work week.

only to

workers

in factor-

ies, stores,

Of course it would be manifestly

40-Hour Week

offices, or

It will now be up to the department new farm animals. We will want cows who will yield milk on five days a week, chickens which will do a sevenday laying stunt in five days, and hogs and cattle which will accumulate as much meat in five days as they formerly did in seven.

people in towns and cities are to work only five days a week why the hell lic opinion, makes known its findings. should farmers work seven days a The result—35 per cent wanted lower week!-Brooks Bulletin.

. . .

Friday, has been fixed as "Farmers' Day" by the Canadian Federation

Farmers'

Holiday

will rest from their labors that day.

the Federation, W. J. Parker of Winnipeg, president of Manitoba Pool Elevators, asked, "Why June 21st?" James Jackson of Irma, former president of the Alberta Farmers' Union, replied: I believe the farmers ought to get the means of production most for their money."—Alberta Wheat sale of commodities. Pool Budget.

EQUALITY for agriculture is not just a nice sounding phrase or siogan which may appeal to farm people because it can be interpreted as a promise of more for themselves. On the contrary, it sets up a goal which to farm residents envisions rural homes, rural schools, rural medical and hos-

pital services, rural Equality for churches, rural li-Agriculture recreational and cul-

tural opportunities which compare favorably with those

enjoyed by urban citizens on the average. To the nation it means much more than that. A healthy, thriving agriculture,—synonymous with a condition of equality for folks on the land -it means better and more efficient production and therefore abundant supply of good quality farm products for home and export markets; it means better care and conservation of the soil; and it means an effective demand for the products of industry. Farm families are doubly valuable consumers, in that they buy not only goods for family living, but supplies and implements of production as well in the retail market.-H. H. Hannam, President, Canadian Federation of Agriculture.

NOT long ago the Canadian Institute of Public Opinion raised this quesof agriculture to devise a whole set of tion: "If a company reduces its costs of production should it sell its product for less or should it use the saving to

High Wages or Lower Prices?

To put the situation very bluntly: if ders a service to the nation when, by this means, it feels the pulse of pub-

prices, 42 per cent wanted an increase in wages. There were other opinions, not stated, and some who had no opin-JUNE 21st, which this year falls on a ion. To my point of view there can be no doubt as to the correct answer.

If prices are lowered, all gain-all of Agriculture. It is ex- the people of Canada pay lower prices pected that all farmers for the things they buy—therefore they have more money with which to buy goods. The result is more employment, When the resolution a higher volume of total wage payfixing the date came ments, greater prosperity, not only for annual convention of labor but for all Canadians.

The increase in production per man is the fruit of national effort, not of labor alone, nor of capital alone, not even of science and education, but from all the many and diverse factors which "It is the longest day of the year and contribute to the improvement of the means of production, distribution and

> In the period from 1923-25 to 1939 production per man-hour in manufacturing in the United States increased 64.2 per cent. If these gains had been passed on to society as a whole in the form of lower prices labor would have received its share, the cost of living would have fallen, demand would have been greater, sales abroad would have increased, labor would have had a higher level of employment. Wage rates would not have risen to the same extent but total wage payments would braries and rural have been higher, there would have been little or no unemployment—taxes would have been lower.

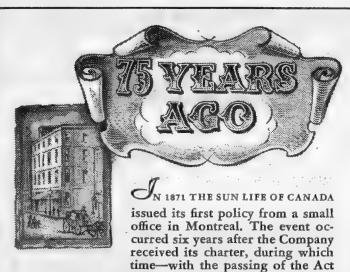
Selfishness is too powerful a factor

ELECTRIC POWER ON THE FARM

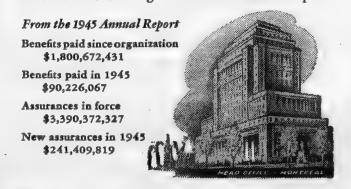
WE walked into a Lethbridge plant the other day, an attendant turned a walked into a Lethbridge plant the other day, an attendant turned a switch on an electric stove, an electric dynamo started up, driven by gasoline, and before we knew it the element on the burner of the stove was hot, ready to boil the tea kettle. And we said to ourselves: This is the development which will mean as much to rural living in this decade as did the cheap motor car after the First Great War. And particularly it will mean to the farm housewife as much as did the motor car for, while the car overcame distance and loneliness, this will overcome the drudgery of the farm kitchen. It will light the home and the barn, it will operate the standard type home helps like a vacuum cleaner, it will pump the water, do the refrigerating and make farm life worth while. make farm life worth while.

These new farm power plants are not intended to take the place of the rural electric line fed by high tension wires from the central plant a hundred miles away. But that kind of rural electrification can come only in areas which are fairly thickly settled—three settlers per mile or, at the least, two. These plants are for the isolated farms and ranches in the big farm area where there isn't a chance in the world of getting rural electrification as we have the know it.

The new plants which supply 110-volt power will, soon as they are available, change farm living to a degree that nothing has done in the past 25 years. We hope that the manufacturers can get priorities to make them by the tens of thousands. We need them if we are going to hold on our farms and ranches the kind of people who can make such ranches produce as they should produce Watch this new development.—The Lethbridge Weekly Herald.



of Confederation (1867)—the Dominion of Canada was born. The Sun Life of Canada has marched forward with the Dominion which, with its steady growth in resources and its rise in world esteem, has earned so high a place in the councils of mankind. The Company's growth is significant proof of wide public acceptance. Through three quarters of a century, during which wars have scarred the earth, and mighty inventions and discoveries have altered man's destiny, the Sun Life of Canada has met successive opportunities, expanding as life and industry took on new shapes and aspects. In 1895—at the end of the first twenty-five years of operation—the assurances in force amounted to \$35 million. At the end of fifty -in 1920-this amount had risen to \$488 milvearslion. Today, after seventy-five years of public service, the Sun Life of Canada holds a leading place among life assurance companies with well over one million policyholders, and assurances in force of \$3,390,372,327. The Company's financial strength and high standard of service are indeed worthy of the finest traditions of a great time-honoured enterprise.



SUN LIFE OF CANADA

Copy of the Annual Report for 1945 will be sent to all policyholders, or may be obtained from:

J. A. ISBISTER, C.L.U., Branch Manager, Calgary R. A. COULTHARD, Branch Manager, Edmonton

in human affairs. It is self-destructive. High wage rates tend towards a reduction of total wage payments. It well that this should be so. If we lived world where selfishness never paid there would be little selfishness. While writing this I reached for a book lying on my desk, .: I was in search of a quotation which seemed to fit the mood of the moment. I could not find the item I wanted, but as I turned over the pages there fell on my desk a three line clipping. It was from Solon, a statesman of Athens, a law-giver who lived five or six hundred years before the birth of Christ, it read:

"The ideal state is that in which an injury done to the least of its citizens is an injury done to all."

The same idea has been repeated in a hundred forms but we move further and further from it as the years pass When we come to believe it we will have United Nations even if there is no organization by that name. Man then will have recognized that even if he is not his brother's keeper, he has, at least, an interest in mankind.-R. J. Deachman, Ottawa.

WITH all sorts of food products in demand, it should not be hard for farmers to follow their favorite practices in laying out their 1946 cropping

Balanced Farming

program. But we hope that they will try to balance things up and look to the long-range

requirements of their We're still threatened with farms. soil erosion through wind, and the farmer who has the good of his land at heart might well consider seeding down a portion of the arable area to provide feed and pasture for livestock for which a ready sale appears assured for some years. Now when farmers are in good financial position is the time to do some of the things which the urgency of income during the depres-sion years, and the great demand for during the war years, made impossible. Better balanced farming is possible now, and it's a good time to start.-Lethbridge Weekly Herald.

THE president of the Alberta Farmers' Union has stated that the organization favors close collaboration with organized labor. Theoretically with organized labor. the idea may appeal to farmers but the practical working out may not seem so favorable.

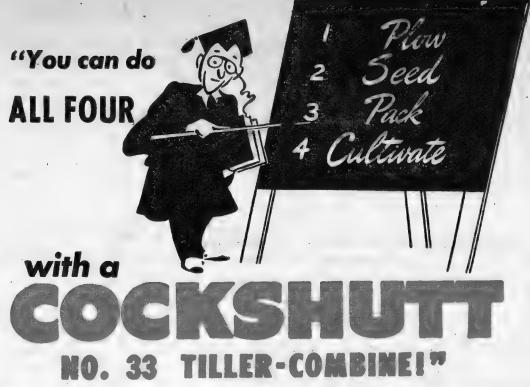
Suppose school Collaboration teachers organized With Labor and demanded \$150 a month, what would be t.h.e

reaction? Yet packing house workers earn that wage. School teachers have to go through years of study and trained specialized training, during which they have no earning Who will say packing house workers should be paid more than a school teacher?-Brooks Bulletin.

Co-operative Farming Group Organized

A family group at Meskanaw, near Melfort, Sask., who have been co-operating for years with labor and machinery, now will pool their land and live-stock as well, and centralize their buildings. Known as the Laurel Farm Co-operative Association, membership consists of six men and three women.

Of the six co-operative farms in Saskatchewan, three are for the operation of farm machinery and three for more extensive co-operation like the Meskanaw project.





Save 40 to 50% on Tillage Costs!

Successful farmers testify to the downright efficiency of the Cockshutt No. 33 Tiller Combine . . . to the big savings they get from its several uses . . . in spring tillage and seeding, summer fallowing and afterharvest discing. You'll find the Cockshutt No. 33 Tiller Combine in a size for every need ... horse or tractor drawn ... mounted on rubber or steel. You'll appreciate its many exclusive features . . . Cockshutt quality :: its sturdy construction . . . and, most important of all, its ability to save time, labour and money for you! Investigate the Cockshutt No. 33 Tiller Combine today . . . you'll be glad you did!

COCKSHUTT "80" TRACTOR

The leader in the 3-plow trac-The leader in the 3-plow tractor field ... a powerful, rugged field model built for superior performance and real fuel economy. Equipped with 4-cylinder valve-in-head engine ... designed to do your work for you, micker, easier and for you, quicker, easier, and cheaper!



A limited supply of the book "Farming in Canada" is still available. See your Cocksbutt dealer.



Today! Your FRIENDLY COCKSHUTT DEALER

SMITHS FALLS MONTREAL TRURO

PLOW COMPANY LIMITED BRANTFORD

REGINA SASKATOON EDMONTON



BUTTER RATION REDUCED TEMPORARILY

Hon. J. L. Ilsley, Minister of Finance, has announced that depleted stocks Hon. J. L. Ilsley, Minister of Finance, has announced that depleted stocks of butter, lower winter production and increased consumption have necessitated a cut in the butter ration during March and April from the present 6 ounces per person per week to 4 ounces per week. Instead of 3 coupons becoming valid every 4 weeks, there will be 1 coupon every 2 weeks. Coupons will become valid on March 7 and 21 and April 4 and 18. Quota users, except hospitals and such special users, must make their butter allocations for the first quarter last until April 30.

NO SUBSIDY ON IMPORTED PACKAGED BEES

The subsidy of 50 cents per pound, paid on imported package bees during 1944 and 1945, will not be paid on 1946 importations. Instead of this subsidy, which was to take care of increased production costs, there is to be an upward revision in the ceiling price for honey across Canada for the 1946 crop.

FARM SLAUGHTERING OF MEAT

Rationing in Canada is providing meat for export to Europe and Great Britain at the rate of approximately 150,000,000 additional pounds per year. In the three months following the re-imposition of meat rationing, domestic meat consumption was reduced by 3.4 pounds per person, or an equivalent of 8½ percent over the year. Farmers have been largely responsible for making this additional contribution possible, and they are asked for continued co-operation in observing the following regulations:

Meat ration compons are to be collected by farmers from the ration

Meat ration coupons are to be collected by farmers from the ration books of members of farmers' households when meat slaughtered by themselves is consumed by themselves, as well as for meat they sell to neighbouring farmers and to licensed slaughterers. These coupons are to be sent to the local ration board lands and to the sent to the local ration board lands are to be sent to the local ration board lands and to the sent to the local ration board. are to be sent to the local ration board by the tenth of each month.

One meat coupon must be turned in for every four pounds of meat consumed in the household but farmers need not turn in more than half the valid meat coupons in the household's ration books.

For the meat sold to neighbouring farmers, they must collect one ration coupon for each four pounds of meat sold, even if it means collecting coupons which have not yet been declared valid.

For meat sold to licensed slaughterers, they must not sell less than a quarter of beef or a side of pork, and they must collect a ration cheque or other ration documents for the full poundage of the meat, according to the wholesale meat coupon chart. Every licensed slaughterer has a chart in his possession.

MAPLE SYRUP SALES

There are no major changes in prices or in the method of rationing maple syrup and maple sugar this year. Maple butter has been removed from the ration and will be coupon free the same as maple wax (la tire) and maple cream. Maximum prices per Imperial gallon for sales of maple syrup direct to consumers, in screw top metal containers, f.o.b. nearest shipping point

Ungraded syrup.....\$2.40 Canadian Medium Grade...\$2.90 Canada Dark Grade....\$3.15

Prices will be 25c less if sold in bulk. If sold by grade, the grade must be clearly marked on container; otherwise price for ungraded syrup applies. Grading must be in accordance with the Maple Industry Act and the colourimeter approved by Federal Department of Agriculture.

A premium of 25c per gallon over the "Canada Light" price has been fixed for syrup grading "Fancy".

MAPLE SUGAR:-Maximum selling prices per pound are:

Loose-packed in bags or other containers, commonly	
known as "farmer's run"	.22
12, 1, 2 or 4 lb. blocks	.35
Maple way (la tire) maple butter and maple cream	35

coupons:—From March 1 to May 31, one sugar-preserve coupon covers the purchase of two quarts (80 fluid ounces) maple syrup, or 4 lbs. maple sugar. Maple butter, maple wax and maple cream are not rationed. After May 31 one sugar coupon will be good for 48 ounces of maple syrup.

A farmer may use his own maple products on his own premises without surrendering coupons. He must collect coupons for all direct sales of rationed maple products off the farm, and forward coupons to his Local Ration Board.

MAIL ORDERS:-Loose coupons must not be accepted with mail orders. In exchange for two preserve coupons a special voucher, covering purchase of one gallon of maple syrup, can be obtained from the Local Ration Board. Producers must not ship syrup unless this voucher accompanies order.

Vouchers received by producers may not be transferred, exchanged, negotiated or deposited and should be forwarded to Local Ration Boards by 10th of each month in postage-free Farmer's Envelope, RB-61, together with coupons and other valid ration documents from sales of maple syrup and maple sugar.

FARMERS' RATION COUPONS

	Butter	Meat	Sugar-Preserves
March 7	R-3	27	S2
March 14		28	
March 21	R-4	29	S3-S4
March 28		30	

For further particulars of any of the above orders apply to the nearest office of the Wartime Prices and Trade Board.

Pig, Salt and Smoke

By EVERARD CLARKE In The Cream Collector

For centuries man has preservproach of frost and cold ment they don't like. So do sugar and weather, in the season of har-Under their twin influences the dry cure and the other is pickling or lowly porker rises to a full height in thoughts of tender juicy ham and savory crisp bacon.

For centuries man used the sun to dehydrate. He used precious salt to halt the process of decomposition. He hung his meat from the rafters and he found an added preservative and flavor in the smoke which often filled the room.

There is a deep satisfaction in poising a carving knife over the juicy fragrance of steaming well-cooked ham and remarking with ill concealed pride, 'our own, you know." The pride is touch of experience as well as the gift of a discerning palate.

Butchering in the days when I was a boy, was something of a seasonal rite. Nowadays the process is much simpler. Sometimes a local butcher is tions of other ingredients. engaged in advance to do the slaughtering and cleansing.

Nevertheless, there still are a large number of people who kill their own pigs, do their own curing and smoking, and satisfy their own personal tastes. I know one part of the North Okanagan where a friend of mine translates oldtime ceremony into a streamlined procedure which certainly nets him a superior product—one I take a delight in too-with a minimum of effort.

HERE is how he handles some of it. halves of each hog; two shoulders, two eight sections ordinary bacon - altogether sixteen very choice pieces, with a minimum of work.

The best results are entirely possible (just as in dairy farming).

Number one is selection of the pig; size 180 pounds, approximately, produces the best ham and bacon of the growth of molds. desirable size. Hams of a 200-pound animals produce a greater percentage for cooking. of lard also something which can not present time.

temperatures are essential. There can be bacteria within the flesh tissues. It slaughtered carcass down to 38 degrees as fast as he possibly can. is exactly the same as getting the animal heat out of cream and bring it to course a carcass takes longer.

grees. Curing should never begin until horse shows.

this chilling is approximated as nearly as possible. It must be through and through and through. For best results it should take two days at least. Once the carcass is chilled it should be cut into desirable family-size pieces. This is a matter of personal preference. Be sure the pieces are neatly trimmed and that there are no ragged edges, blood spots, and excess skin and fat.

Bacteria grow beautifully in fresh pork at high temperatures. They like ed his food in times of plenty where they live and they prove it by against a time of want. The ap- multiplication. The cold holds them nitrates. There are two methods which vest, brings to my mind the lure may achieve proper penetration of the -age old-of smoke and salt. meat by the curing material. One is wet cure.

The basic formula is virtually the same for wet or dry cure. Eight pounds of salt, two pounds of sugar (if you can get it), two ounces saltpeter, for each one hundred pounds of meat. If you are using the wet cure, or pickle, add four and one-half to six gallons of water. Saltpeter will preserve and impart an attractive red color to the meat. It adds little or nothing to the flavor and too much makes for woody fibred flesh. A great many people prefer brown sugar. Honey can be used along with brown sugar.

For testing the brine, my mother used to say it should be strong enough justifiable too. The proper curing and to float an egg to the point where its smoking of pork is a skill requiring the shell emerges from the brine to the size of a dime. Be sure salt is thoroughly dissolved before testing. It is a good idea to make the brine stronger to start with. It is easier to add water than to figure out proportionate addi-

> NOW that your meat is cured, it remains to tackle the smoking. This occurs in two periods. The quicker cured bacon first and the slower hams in due course. After removal from the pickle, all pieces should be soaked in clear, cold water and hung up to dry so they will be free from any attack of flies and insects. Soak hams about two hours and bacon about 30 minutes. Soaking is said to make for a lighter, cleaner and milder flavor.

Smoking involves a smoke house of He produces the following pieces some sort. It can be as simple as a for curing and smoking from two barrel but usually it should be an ordinary 6x6x8 building, equipped with hams, four pieces of Canadian bacon, adequate ventilation and should be mouseproof. A good cool smoke will rise freely from green wood. Under no circumstances use resinous wood such as pine. The flavor will be appalling. on the farm. It depends upon rigid In this country most people seem to observation of a relatively few im- prefer alder. The purpose of smoking portant steps of which cleanliness and is two fold. One is flavor and two is temperature are the most important preservation. Smoking deposits creosote on the meat which retards and prevents the growth of bacteria. It also dries the surface and retards the

The temperature should be around pig will weigh approximately fourteen 120 degrees. Smoking, remember, is and bacon about ten pounds. Heavier for flavor, drying and preserving-not

A good rule is two days smoking at be bought readily in local stores at the 110-120 degrees. You should finish a ham to a rich brown color. A thin Absolute cleanliness and controlled flow of smoke produces a milder flavor, dense smoke a more pronounced flavor. Some experts in the north Okanagan is an inevitable contest between the like to do the smoking in shifts. Smoke "butcher" and the "bugs". If the for a day and then cool for a day and butcher is to win, he must chill the then smoke again until the desired do If the for a day and then cool for a day and gree of smoke has been achieved

Ontario Agriculture Minister T. L. under 40 in a matter of minutes. Of Kennedy said he planned to take action ourse a carcass takes longer. to discourage mutilation of horses'
In the packing house they hang tac tails for the showring. He will recomcarcass in a cellar maintained at 32 mend that no further provincial grants degrees until the carcass reaches 38 de- be made to these classes in future

Special Care Is Required To Produce Hatching Eggs

A FEW years ago, practically all poultry flock replacements were made Keep Them Laying with chicks hatched on the farm, either under the hen or through the use of important Factor small incubators. In recent years, however, this practice has changed and In Poultry Profits at present a considerable part of the replacements are made through the purchase of millions of day-old chicks from large commercial hatcheries. Operators of these hatcheries, as a consequence, are in the market for huge numbers of eggs suitable for hatching, and a profitable outlet for owner.

Eggs for hatching command a premium in price over those sold for eating but must meet certain requirements before such premium is paid.

to produce a strong, healthy chick from attainment.

The flock should be shifted over to a are high in riboflavin content, necessary to high hatchability.

Eggs should be stored in a clean, cool, well ventilated cellar and not held more than seven days. 50 degrees F. is best.

ity in shape and size and for shell tex- wheat for the hens to clean up well. ture and color. Odd-shaped, misshapen And remember cleanliness is always and very large eggs or those showing important in increasing egg production any sign of containing more than one and helping to prevent disease yolk should be discarded.

Selection for egg size will not only influence egg size in the progeny, but makes for greater uniformity in the Hatching eggs should run 24 In Brooder House chicks. ounces and preferably 25 ounces to the dozen with no egg going below two ounces.

acteristics sandy, ringed, etc., should be avoided anywhere in the brooder house, and and where shell color is a factor select all hatching eggs to color standard.

As dirty shells are undesirable prewashing, is likely to affect the hatch- room temperatures outside. ability adversely.

Before shipping to the hatcheryman or placing in the incubator check all a cracked egg will hatch.

R. I. Red Roosters Travel 4,400 Miles

Five pedigreed R.O.P. Rhode Island Kitt's Island in the Leeward group, British West Indies. When examined other's wings. by a veterinarian at the C.P.R. terminal in Montreal the \$20 birds were in fine condition. The fame of Canada's **50,000** Record of Performance poultry is spreading: repeat orders for breeding stock also have come from points in South America.

DISTRIBUTE COCKERELS

B.C., noted Barred Rock breeder, ship. tion. ped 119 R.O.P. cockerels to Calgary this winter, where they were distributed to hatchery flock owners by two males went to Haney, B.C.

THIS is the time of year, a correspondent writes, when the price of eggs is so high that we want to get every egg we can from Biddy. The hens will do their share if a few simple rules are followed, with very little expense. The cock should be culled eggs is made available to the flock down to one-year-old and pullets, with possibly some vigorous two-year-olds, but no older, as they do not pay for their keep.

The laying house should face the south, in order to give the hens the The objective of the hatcheryman is utmost sun and light. A ventilator in the roof for fresh air is essential. The each egg set. Proper feeding of the scratch pen, separated from the rest breeder flock and careful handling of of the quarters, with a few inches of the eggs will aid materially in its clean wheat straw, makes an ideal place for the hens to exercise in.

The ration need not be expensive. good hatching ration at least three Oyster shell is all that a farmer would weeks prior to saving the first eggs to have to buy. Fresh, clean water is be used for incubation. These rations very important, and this should be warmed a little. If the container is hung up a few inches off the ground, the water will stay cleaner.

To balance the ration, the hens If held should have a little raw meat. longer, hatchability is likely to be re-rabbit or a beef head is generally obduced. An even temperature of about tainable. For greens, supply alfalfa leaves or green oat sheaves, and round Eggs should be selected for uniform out the feeding ration with just enough

Watch Temperature

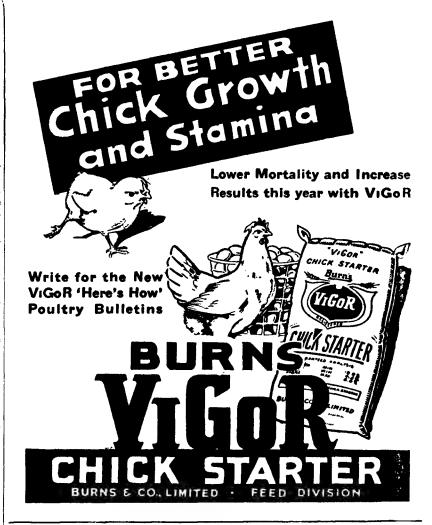
THE proper temperature of a brooder unces.

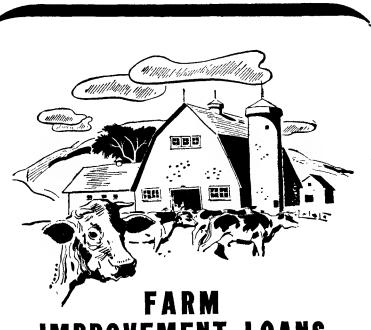
L house for the first three weeks'
Eggs having undesirable shell char- occupation by baby chicks should be - thin-shelled, rough or such that the chicks are comfortable enough beneath the brooder to enable them to get warm quickly if chilled by staying too long in parts remote from vent the production of these as far as the heater. This will be 90 to 100 depossible, for cleaning, and particularly grees beneath the hover, with ordinary

A thermometer will be useful until the caretaker has learned to judge temperatures through observing the aceggs for cracks as it is improbable that tions of the chicks. If the chickens are comfortable, they will not huddle or crowd together, but will separate and run about the floor; when cold they will gather beneath the hover, but will spread out upon the litter, some singly, some in groups and sometimes in a comfortable circle beneath or just out-Red roosters recently were shipped side the edge of the hover. While in 4,400 miles from Cabri, Sask., to St. contact with each other, they will not crowd and attempt to get beneath each

Chicks should be confined near the source of heat for the first few days having been put into their brooders, so that they may not huddle in cold corners and perish, but they will soon learn the source of heat and return to the hover when cold. It is to their advantage that they can have cooler portions of the room to play and work in and, as soon as possible, they Jack Beer, R.R. 4, New Westminster, should be given an outdoor run in addi-

The department of poultry bandry at the University of British hatcheries in a campaign to raise the Columbia in recent months has shipped standard of their commercial chicks. pedigreed breeding birds to many Another 48 of Beer's Barred Rock southern American states, to Mexico nd as far afield as New Zealand.





IMPROVEMENT LOANS

● Under the Farm Improvement Loans Act a farmer may now borrow on special terms to buy agricultural implements, livestock or a farm electric system, and for fencing, drainage, repairs to buildings or other farm improvements.

This Bank is fully equipped to make loans to farmers under the provisions of this Act.

Consult the Manager of our nearest branch.

THE CANADIAN BANK **OF COMMERCE**

Control Measures for Insect Pests Outlined



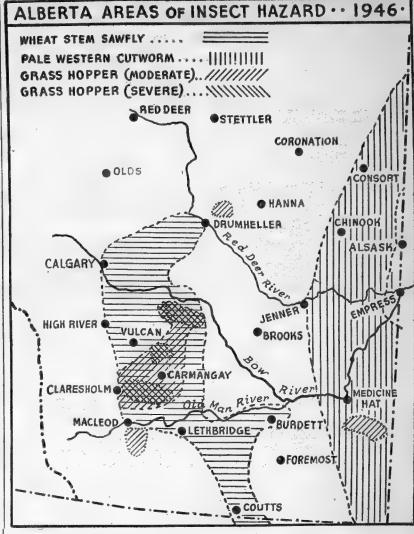


Electricity and power are two essentials of a modern farm and the Johnson Iron-Horse generator supplies both at low cost. You get electricity for brilliant electric light in house, barns and yards; current for running a radio and charging batteries; direct power for operating cream separators, feed grinders, washing machines, etc., and running water wherever and whenever you want it.

If you need power alone, the Iron-Horse power unit can be bought without the generator. The Johnson Iron-Horse is precision engineered for long and dependable service. Low upkeep and operating costs make the gasoline-fueled

> Iron-Horse an economical investment which will pay for itself in labour saved, increased production and added comfort. Be sure to write No. 575.





THE accompanying map, pre- run fast and shallow, results in the pared by the Dominion En- best kill; a disc is second best, he says. tomological Laboratory at Leth- when near sawfly-infested stubble) as bridge, shows the areas in Allong as possible—preferably until after berta where the most severe in- May 15. This is an extreme measure, sect damage is expected in 1946. G. M. Manson, officer in charge of the laboratory, states that in trap strips of wheat; second, resistant addition to these areas of heavi- crops—oats, barley, flax; third — the est infestations, considerable damage may occur in other stubble. places also, particularly on the fringes of the areas shown.

He predicts that 1946 will see some reduction in the severity of grasshopper and sawfly infestations, but some increase in the case of pale western lay their eggs. Keep livestock and cutworm is likely.

Control measures for these three pests, and for wireworms, are outlined insect may not be necessary—they may in the stubble. be controlled on some farms through

Wheat Stem Sawfly

- 1. Use sawfly traps. Surround wheat fields with a bare summerfallow strip and an early-seeded strip of wheat. Do not seed main wheat crop until trap strip is showing through ground.
- 2. Use resistant crops, such as oats, barley and flax, with summerfallow to clean up blocks. Then use traps to keep them clean.
- 3. Use shallow tillage. Shallow culright after harvesting machine to bring egg-pods. infested stubs up to surface. This method may not be desirable in dis- has had above treatment. tricts where drifting may occur, ex 3. When summerfallowing, crowd plains Mr. Manson A one-way tiller, remaining grasshoppers together, then

- 4. Delay seeding wheat (especially he admits, for use where infestation is unusually severe.
- 5. Seed crops in this order: first, wheat crop, after trap strip is showing.
- 6. Never seed wheat in wheat

Cutworm Control

- 1. Do not work summerfallow between August 1 and September 15, in order to form a crust on the soil surface through which the moths cannot vehicles off such fields, or the moths will lay in the loose soil in the tracks.
- 2. Avoid stubbling-in. It is quite as follows by Mr. Manson. "All the certain that in areas where cutworms control measures against one type of have caused damage, eggs will be laid
- 3. Use the starvation method. Very the use of one or two of the methods young cutworms can be destroyed by outlined," he says. starvation in the open field, if, after they have started to feed and develop, their food supply is destroyed for a period by cultivation. If a field is suspected of being infested, it may be left uncultivated until the weeds (except stinkweed) and volunteer grain are one to two inches above ground. The whole field may then be cultivated and left for seven to ten days before

Grasshopper Control:

- 1. Shallow cultivate all stubble (not tivate all wheat stubble, particularly deeper than two inches) after harvest field margins, very early in spring or or soon after spring thaw to root up
 - 2. Don't stubble-in grain unless land

poison them. Don't drive them off into crops.

4. Control with poisoned bait when necessary; watch for young hoppers—poison them before they scatter through crops; scatter bait only when grasshoppers are feeding; ten pounds of bait per acre scattered thinly is ample; apply in calm weather when sun is shining.

Wireworm Control:

In the case of wireworm damage, unlike cutworm damage, the crop can be reseeded after the damage is done in the spring. To distinguish between wireworm and cutworm damage: if it is damaged by a wireworm, it will take a little pull to get a plant out of the ground, and the root will be shredded rather than cut clean; wireworm damage usually is scattered throughout a field, while cutworms will clean out entire patches.

- 1. Do not work summerfallow between June 15 and July 31.
- 2. In order to get fast germination, seed shallow and do not seed early while the soil is cold; treat with mercurial dust rather than formaldehyde as that gives better germination. Seed heavier than usual.
- 3. A press drill or packer, to firm the soil, makes it harder for wireworms to work.
- 4. Seed resistant crops—oats, barley.
 5. Wireworm damage is more likely to occur in grass sod which has been broken up than in other fields.

For further information on any of these pests, farmers are advised to consult their nearest district agriculturist or write to Dominion Entomological Laboratory, Lethbridge.

Better Seed, Better Crops

SINCE the earliest days, writes Major H. G. L. Strange, director of the Crop Testing Plan, observers of farming have never tired of talking about the great benefits to be gained by the sowing of good pure seed.

LEVITICUS 19:19 (written about

LEVITICUS 19:19 (written about 900 B.C.) says: "Thou shalt not sow thy field with mingled seed."

ARISTOTLE, the Greek, (about 350 A.D.) wrote: "A good plant is not likely to grow from a bad seed."

PLINY, a Roman writer, (about 50 B.C.) told us: "After two years unless careful selections were made crops tended to revert to a common type."

Tests made each year by the "Crop Testing Plan" of the trueness-to-variety of farmers' fields indicate that this ancient advice is as badly needed today as it ever has been, for too many crops today consist not of one good variety, but sadly enough of mixtures often of undestrable varieties.

The purchase of some good seed, preferably Registered or Certified, undoubtedly will bring splendid returns to farmers in the way of increased incomes and from a modest investment. But good seed this year is scarce. Those who have difficulty, therefore, in purchasing Registered or Certified seed might inquire of any agent of the companies associated with the "Crop Testing Plan" for the names and addresses of farmers whose stocks, on test, were found to grade "Crop Testing Plan A" for this is good true-to-variety seed.

carri year there is an increase in the acreage seeded to forage crops in Alberta. Over 600,000 pounds were distributed under the Forage Crop Encouragement Policy alone in 1945, and a strong demand in 1946 is anticipated.

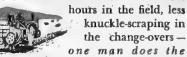
IN DESIGNING NEW FARM EQUIPMENT

John Deere Sights Were Set High

All during the war, the experimental departments in John Deere factories continued, without interruption, their development of new and improved machines. Sights were set high...designers aimed at new and practical ways of making farm life easier, more profitable. And shortly, the farmers of America will see a parade of great equipment that will prove their aim was true...equipment matched to the 109-year-old John Deere tradition of quality manufacture—more value for the dollar invested.

Revolutionary is the new hydraulic power-control on John Deere tractors. A touch of the hand actuates a rock-shaft for integral equipment or a cylinder on

drawn and power-driven machines — lifting, lowering, and maintaining them in any desired working position. It truly introduces the lever-less age in implement design. * Outstanding are new one-man Kwik-Tatch devices for cultivators, bedders, plows, and other integral equipment . . . time-savers that mean more



trick. * There will be a new tractor for the small farm with outstanding new features that put it far ahead of the field. * An important new machine is the John Deere Automatic Hay Baler, destined to cut baling costs to rock bot-

tom. One man, instead of three or four, does the job. It's the only baler of its type that feeds the windrow directly into the baling chamber and ties

with wire. * New and improved harvesting machines include a new self-propelled 12-foot combine and many new features on the famous John Deere No. 12-A. Lighterweight, faster-working corn pickers will

shorten and lighten the corn harvesting job. A new, really portable elevator not only handles corn, but baled hay as well. A simple new grain mover that will replace old-style small grain elevators. * Beet growers are enthusiastic about the new John Deere harvesters and loaders already in the field in small quantity. Potato-growers will welcome the new double level-bed digger—a new, more practical two row machine. The new cot-

ton harvester is a major contribution toward cost-reduction in the growing of cotton. * New integral one- and two-ho

tegral one- and two-bottom plows . . . a new two-bottom truss-frame plow . . . a new land-leveller . . . a six-inch hammermill for small power . . .

a low-cost, front-end manure loader . . . a plow-sole fertilizing attachment . . new low-down, rubber-tired grain drills . . . an in-

tegral field cultivator—these and many other new and improved John Deere machines will be on their way to American farms. * Manpower and materials will be the only limiting factors in production during the coming months, so keep in touch with your John Deere dealer—be ready for the new day in farming with new equipment from the John Deere Full Line.



WINNIPEG . CALGARY . REGINA

ABERDEEN-ANGUS **QUALITY**

GOES TO THE 1946 CALGARY BULL SALE

Buy an Aberdeen-Angus Bull at Calgary Bull Sale-March 21 and 22—and Improve The Smoothness, Quality and Early Maturing Qualities of Your Feeder Cattle.

Use an Aberdeen-Angus bull instead of the clippers or the saw to The hornless character of the breed is of great your stock. economic importance.

If your cows are not up in quality see what an Angus bull will do

A good pure-bred Aberdeen-Angus bull is a sound investment. Aberdeen-Angus Females Selling At The Calgary Sale on March 18.

DON'T GO HOME WITHOUT A DODDIE. ABERDEEN-ANGUS QUALITY IS TOP QUALITY.

Attend the Annual Meeting of the Alberta Aberdeen-Angus Breeders' Association to be held at the Exhibition Grounds, Calgary, Alberta, on Monday, March 18th, at 8 p.m.

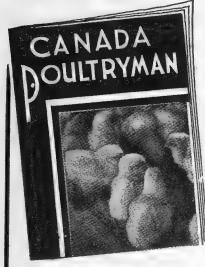
Alberta Aberdeen-Angus Breeders' Association

C. D. FLINT, President, New Norway, Alberta

H. E. WILSON, Secretary, Lacombe, Alberta

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... but it takes three times as much money to rear them.

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keting, breeding, housing, pullets, broilers, layers, turkeys. Everything to do with making YOUR poultry more profitable.

Enjoyed by poultrymen right across the country, CANADA POULTRY-MAN is a monthly poultry magazine. Keeps you in the know on modern methods. Recognized by breeders, hatcherymen and egg producers as a valuable guide. Subscription rates \$1 one year; \$2 three years; \$3 five years. Get it NOW before your chicks arrive.

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Extraordinary combination offer of CANADA POULTRYMAN (3 years) PLUS any three of the nationally known mazazine or farm \$5 Value for \$3 journals listed below. If you're already subscribing to one or more of the periodicals you want, your expiry date will be extended accordingly.

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Gentlemen: I enclose three dollars (\$3.00). Send me a three years' subscription to Canada Poultryman and the THREE magazines marked "X" below as well.

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Canadian Hon	ne Journal1 Yr.		The Country Guide 2 Yr.
National Hom	e Monthly 1 Yr.		Can. Silver Fox & Fur 1 Yr.
Family Herold	G Weekly Stor 1 Yr.		Breeders Gazette (Amer.)
			Liberty 6 Mos.
Free Press We	ekly Prairie		Form Journal and Farmer's
	Chatelaine Conadian Hom National Hom Family Herald New World (i	Chatelaine 1. Yr. Canadian Home Journal 1. Yr. National Home Monthly 1. Yr. Family Herold & Weekly Star 1. Yr. New World (illustrated) 1. Yr.	Chatelaine 1.Yr. Conadian Home Journal 1.Yr. National Home Monthly 1.Yr. Family Herold & Weekly Star 1.Yr.

New Trends In Industry Outlined to Alberta Dairymen

(By Special Edmonton Correspondent)

TALK of new methods and 300 attending the first post-war convention, the 25th annual in dairying. gathering of the Alberta Dairymen's Association in Edmonton, Feb. 12 to 14. From experts they heard of farm and plant problems, from the head of the Dairy Farmers of Canada, the need of larger economical returns and from the head of the National Dairy Council of the promise of research.

The first annual provincial dairy meet had been held at Innisfail in 1906 and the association which now embraces five sections, was organized in 1919. Alberta had come a long way in expanding the dairy production in the past 25 years, said Hon. D. B. MacMillan in opening the convention.

million pounds greater in 1945 than in 1939 although it receded 4.4 per cent last year due to adverse weather conditions, said James B. Ritchie, president. After wartime came new prob-lems; dairymen must consider the effect of the coming removal of government controls. It will take plenty of harmony, give and take, to bring the great industry through, he said. Of the association activities he praised the three field days held by producers, the four district conferences by buttermakers.

SPEAKING on "Milking for Profit", commissioner, said there could be no

Norwegian Farmers Rapidly Restoring Well Organized Co-ops

NORWAY is basically a nation of seafarers, but in that mountainous country fully 35 per cent of the people live by agriculture and forestry. This farming and pastoral activity is compressed into a mere 2,500 square miles. but, given the land, the Norwegians are among the best and most efficient farmers in Europe. They take to modern ways and use what mechanization is possible on small farms. Co-operatives are widespread and well organized. Destroyed during the Nazi occupation, they are already in the process of being rapidly restored.

(slightly over 2,000,000 people), the scarcity of soil means that the farming land is really densely populated. About 880 Norwegians must subsist on every arable square mile. Thus to implement the living from the soil, the people must turn to the sea. In normal times, about 16 per cent of the population was employed in fisheries. However, the production of meat which averaged 100,000 tons yearly in times of peace, was ample for a people who needed a high caloric intake to live in the damp inclement winters and to withstand the exacting demands of lumbering, fishing, grazing, and summer farming.

In the southern river valleys, where most of the farming country is located, production per acre of such basic crops as wheat, barley, hay, and oats is higher than in the most of France and Germany. Only in the far north does it thin out. Even there

stability unless milk production was on a sound economic basis. not ready to agree with the claim that trends in dairying stirred there was no profit in milking cows. else so many farmers would not engage

> As either higher prices or reduced costs were needed to increase returns and since price adjustments desired might take time, he stressed the latter approach. Dealing with production he cited dairy costs survey figures to show that labor earnings on 31 farms where butterfat production was above 270 pounds exceeded by 43 per cent earnings on 26 market milk farms with cows averaging below that. Increasing average production per cow could be had through selection and weeding with cow testing. Herds under test averaged 85 per cent above the provincial average of 165 pounds. advocated better pastures, more grain feeding and more efficient use of labor on dairy work.

While a good market seemed assured Alberta milk production was 52 for three years for milk, butter and cheese, plans should be made, against the day when surpluses return, to seek an outlet in foreign markets. McCallum said plans should be laid to place production upon a sound economic basis. Prevention of disease in the herd and the marketing of a better quality product would play their part.

> Talks on dairying in Oregon, New Zealand and Australia from first-hand knowledge, were given by Dr. G. H. Wilster, professor of dairying in Oregon State College.

Dr. E. G. Hood, dairy research chief, D. H. McCallum, Alberta dairy Ottawa, told of "continuous butter machines" used in Germany, which took in milk or cream and converted it into butter at the rate of from one-half to two tons per hour, according to machine size. They replaced churns and provision could be made for moisturecontrol and introduction of salt.

> Discoveries of the use of inorganic salts that convert proteins in the cow's paunch, use of iodinated caseins, injection of hormones, all portended trends that might cause radical changes in dairying, said Dr. J. E. Bowstead, animal science department. University of Alberta. Elimination of disease would lengthen the useful life of dairy cows. Use of more efficient feeds may call for artificial drying of hay to meet more critical demands of food-conscious consumers with milk of guaranteed quality.

Selection of dairy calves at four As sparse as is Norway's population months by the width of mammary glands was reported at Maryland to have proven a correct indicator of milk production at maturity. There would be a saving through not having to raise the third of the calves that would be low producers when grown

A mechanical cheese machine, a milk product egg substitute, German synthetic butter, evaporation of milk by freezing, were significant developments which called for dairy research that the National Dairy Council promises to explore, said R. G. Smellie, of Russell, Man., its president. New realization of the great nutritional value of milk indicated further great expansion of the dairy industry, he said

Dairy producers as the most important link in the industry must take an active part in readjustment of agriculture to prevent it sinking to the low levels of the thirties, said N. R. it exceeds the production per acre of Clarke of Didsbury, chairman of the such countries as Roumania. producer section Each community

should promote junior calf clubs and herd improvement.

AT the present, butterfat was being produced on many Canadian farms, especially so in Eastern Canada, by unpaid family labor, declared R. H. M. Bailey, president, Dairy Farmers of Canada. The D.F.C. had accepted promise of present levels as floor prices on dairy products, except for butterfat on which four cents increase was sought. With 90 per cent consumed in the Dominion, producers need not worry about a surplus provided enough were paid for the dairy products consumed in the domestic market.

Advantages of the provincial bull exchange policy were outlined by G. S. Black, provincial promotor. He said dairy bulls could be obtained with the 25 per cent assistance, a phase apparently untamiliar to many who heard of 2,000 beef bulls having been placed in the past years.

Officers Named

W. L. Perley, Calmar, chairman of the producers' section was elected president of the Alberta Dairymen's Association, F. C. Wells of Edmonton, chairman of the manufacturers' section, was made first vice-president; R. S. "Barney" Stanley of Edmonton, second vice-president, and D. H. Mc-Callum, secretary.

A. J. Ottewell of Clover Bar was elected president of the producers' section; A. C. Anderson of Calgary, vice-president; J. B. Ritchie, secretary.

Grant Carlyle of Calgary was elected vice-president of the manufacturers, and S. H. Thomas of Edmonton, secretary.

G. M. Gibb, South Edmonton, was elected president of the Dairy Cattle Breeders; A. C. Anderson, vice-president, and R. Dixon of Edmonton, secretary.

S. Frederickson of Lethbridge was returned as vice-president of the buttermakers; A. Ross, Edmonton, secretary. John Mader of Glen Park was returned as head of the cheesemakers; O. J. Davidson, Mountain View, as vice-president; and R. G. Gault, Edmonton, made secretary.

Extension to the utmost of the cowtesting program, increase in the number of dairy field days, and a campaign to promote daily and early deliveries of milk and cream to plants, was asked of the provincial dairy branch by resolution of the association's closing session.

Alberta department of agriculture was asked to continue the policy of restricting issuance of licenses for new creameries to districts not already adequately served; to form more dairy calf clubs for juniors; to purchase the film, "Science of Milk Production," screened by Dr. Wilster of Oregon, for educational use throughout the provinces; and to enlarge the animal pathology laboratory facilities, particularly to do more work on mastitis.

The provincial government was asked to bring the training of learners in creameries and cheese factories under the Alberta Apprenticeship Act. The Dominion government was asked to provide research into the new German method of "continuous buttermaking."

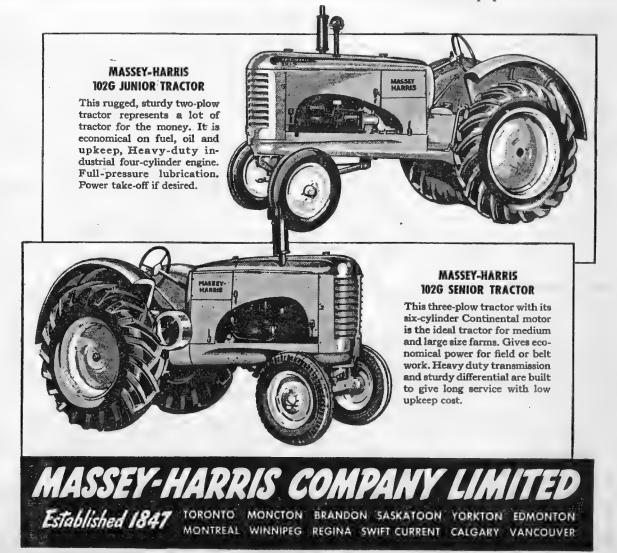
Representatives of 15 junior dairy calf clubs attended the convention and followed the discussions with interest. In a judging competition held at the university farm the winners were: First, Ronald Friend of the Rosalind club; second, Lillian Hennig of Wostock, and third, Dorothy Anderson of Springbank. The challenge trophy for teamwork went to the Springbank team, Dorothy Anderson and Neil McKnight

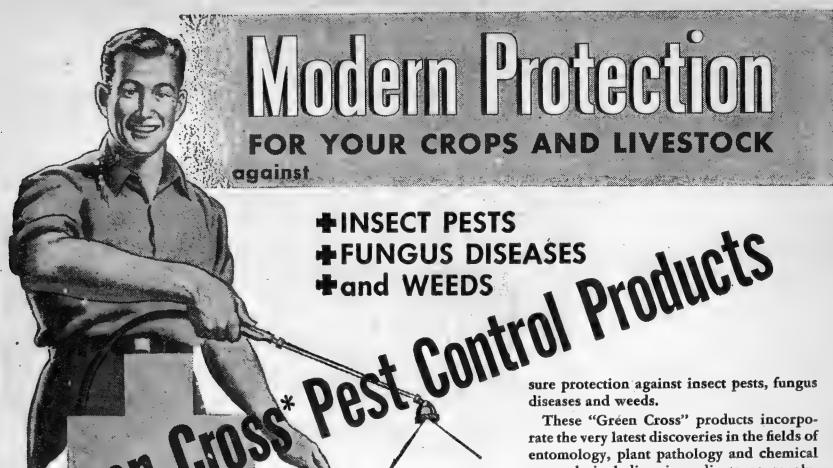


Look ahead five, ten, fifteen years. Can you keep on paying high wages and not getting a high enough return for your money? Are you going to continue to lose money through not getting your plowing, seeding, harvesting or threshing done before bad weather interrupts your work?

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implements you can raise more crop with less help. You can get the necessary work done in those short, critical spells of fine weather. You can make extra money doing custom work for neighbors. And remember —when your tractor's not working, it's not eating. In the long run you'll have more money in your pocket if you farm with MASSEY-HARRIS' equipment.





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NNOR Rotenone Spray—A remarkable new non poisonous patented contact insecticide combining mannitan monolaurate and rotenone, thus producing tremendous killing power against aphids, leaf hoppers, mealy bugs, thrips and other insects. Being non-poisonous, NNOR is particularly suitable for use on vegetables and certain types of fruit stock. An excellent replacement in many instances for nicotine sulphate.

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THE different varieties of wheat, oats, barley and flax have certain advantages and offsetting disadvantages, which tions of a particular location or individual farm. The choice is made easier by the Alberta Varietal Zonation Committee. which each year, after careful study of the many factors involved, recommends one or several varieties for each of the four crop zones in the province. The zone map, with recommended varieties of wheat, oats and flax for 1946, appeared in the February issue of the FARM AND RANCH REVIEW. The list of recommended varieties of barley now is available also, and is as follows:

MALTING BARLEY-O.A.C. 21, Olli in Zones 1, 2, 3.

FEED BARLEY - Zone 1 (dry land)-Newal, Titan.

Zone. 2 (dry land)-Newal, Olli, Ti-

Irrigated areas-Newal, Olli, Sanalta, Titan, Trebi.

Zone 3-Newal, Olli, Sanalta, Titan. Zone 4-Newal , Olli, Titan.

press Hills, which are in Zone 2) is, roughly, the brown soil region; Zone 2, dark brown and shallow black soil: Zone 3, black and gray black soil; Zone 4, gray wooded soil.

From the list of recommended varieties for his zone, each farmer may select the one most suitable for his own farm. The following comments on the varieties, by Dr. A. G. McCalla, department of plant science of the University of Alberta, will prove helpful in making this selection.

WHEAT: Red Bobs and Thatcher are recommended in all four zones, with the addition of Canus and Marquis in Zones 1 and 2.

THATCHER is high vielding, of good quality, reasonably early, has strong straw, is hard to thresh, but does not shatter, and is resistant to stem rust. It produces a very unattractive kernel, and is susceptible to leaf rust. It has proved itself a very valuable variety.

RED BOBS is high yielding, of good quality, fairly early, has fairly strong straw, is easy to thresh and therefore shatters badly, and is very susceptible to the rusts. It produces a good kernel of good weight but becomes starchy or piebald under conditions producing low

MARQUIS is taller, weaker, good yielding, excellent in quality, but definitely later than Thatcher or Red Bobs. It is susceptible to rust, and is hard to thresh.

CANUS is the highest yielding of the four but it is bearded, fairly late, and which is not easily controlled. The shatters rather badly. It has very most popular feed barley in many strong straw, is resistant to root rots and much more resistant to spring frosts than are Marquis and Red Bobs, but its popularity is limited.

all four zones, with the addition of Eagle in Zone 1; Ajax, Eagle and its spread. Legacy in Zones 2 and 3; and Ajax, Titan—re Banner and Legacy in Zone 4.

VICTORY is the old reliable. An excellent yielder, a plump, heavy kernel, but rather weak straw and somewhat late. Nevertheless, it is still the most popular oat in the province.

Banner is much the same but with a slimmer kernel. Not grown much now except in the north.

EAGLE - a Victory child. Much the same but with shorter, stronger

Best Grain Varieties must be balanced in determining which will best suit the condi-



DIRECTS FARM SERVICE

Dr. Frank J. Greaney, B.S.A., M.S., Ph.D., who has been appointed director Zone 1, comprising the south-eastern of the Line Elevators Farm Service portion of Alberta (excepting the Cy- with headquarters at Winnipeg. He is a graduate of Ontario Agricultural College and spent a year at Rothamsted experimental station in England. He has carried out research in root-rot diseases, cereal rusts, and seed-borne diseases of grains. He formerly was plant pathologist at the Dominion laboratory of plant pathology at Winni- soil. peg. Dr. Greaney in his new position succeeds Dr. K. W. Neatby.

> straw, relatively poor kernel and somewhat lower yield.

> AJAX-still earlier, still lower yield under Alberta conditions, but otherwise a good oat. Where oat rust is bad, Ajax is superior because it is resistant.

> BARLEY: The zone recommendations for barley are given above.

O.A.C. 21-weak straw, weak neck only fair yield, rough awns, but still grown on more acres in Alberta than is any other variety. Why? Because it is the best malting barley yet avail-"I predict," said Dr. McCalla, certainly not forgotten."

OLLI-very early, fairly, low yield, rough awns, small seeds. Also a malting barley, so early that some farmers but forgive everything else, and are justified.

> NEWAL-high yield, fair strength. smooth awns, excellent quality feed, but very susceptible to loose smut parts of the province.

SANALTA - high yield, only fair strength, smooth awned, very tall, very late, but of excellent quality as a feed. OATS: Victory is recommended in A two-awned, large-seeded barley, very easy to clean. Its lateness will restrict

> wheat. It is difficult to get the beards sults obtained from these studies. off in threshing unless the grain is really dry. The color and appearance combined.

but still popular in the south, particularly under irrigation.

FLAX: Bison and Royal are recommended for Zone 1; Bison, Redwing and Royal for Zone 2; Redwing for Zones 3 and 4.

BISON-fairly late, rather weak, fair quality, good yield in the south. Too late for the north. Resistant to wilt but not to rust.

ROYAL-late, weak, good yielder in south, quality only fair. Fairly resis- Redwing __21.9 108 tant to rust but susceptible to wilt. Royal ____21.5 121 Too late for north.

REDWING - early, strong, good qual. Summary of results of tests at Fallis: ity, good yield in north, poorer in south. Very small seeds. Resistant to wilt but not to rust.

The following statistics on the values of the varieties from different standpoints were published in the Press Bulletin, a publication of the University of Alberta, in an article by Dr. M. N. Grant, department of plant reience. While the actual results may be better in the test plots than on the average farm, still the varieties can be expected to maintain the same standing, in comparison to one another, in other places with similar conditions to those where the tests were conducted. Edmonton is in the black soil region, and usually has a comparatively good rainfall, while the Fallis area has a gray

Summary of results of tests at

Editorton.				
	YIELD	GROWTE	1 - STRAW	
•	(Bushels	PEBIOD	STRENGTH	
	per acre)	(days)	(1 to 10)	
WHEAT:	6-year	6-year	5-year	
	average	average	. average	
Canus	51.5	112	8.1	
Marquis	46.7	112	6.8	
Red Bobs	47.0	108	7.6	
Thatcher	49.3	109	7.4	

OATS:	8-year	7-year	3-уеаг
	Average	average	average
Ajax		alle gan eat	7.7
Banner _	75.6	94	
Eagle	75.3	95	7.4
Legacy			7.3
Victory			6.6
		7-year	5-year
BARLEY:	average	average	average
O.A.C. 21	51.9	90	5.2
Olli	52.2	80	7.8 *
FEED	3-year	3-year	3-year
		average	
Newal	64.4	91	6.1
Sanalta _	61.5	101	5.9
Titan	68.8	89	8.4
Trebi	64.4	97	5.2
FLAX:			
E STERNING !	average	average	
		7 117	of the Comments
Redwing	21.9	108	28 3 Wa
		191	

At Fallis, in the gray soil zone, wheat yields, 7-year average, Marquis, 32.4; Red Bobs, 34.8; Thatcher, 36.9. Wheat straw strength, 7-year average: Marquis, 8.2; Red Bobs, 8.4; Thatcher, 7.9.

Malting barley yields at Fallis, year average: O.A.C. 21, 37.6; Olli, 36.6; straw strength, 6-year average: O.A.C. 21, 5.6; Olli, 7.5. Feed barley yields, 9-year average: Newal, 45.1; Titan, 37.6; Trebi, 49.2; straw strength, Newal, 7.8; Titan, 7.3; Trebi, 6.6.

Protein content is an important indication of the milling quality of wheat. At Edmonton, 6-year average, Canus had 14.4 per cent protein content, Marquis 15.0 per cent, Red Bobs 14.0 per cent and Thatcher 15.0 per cent. Fallis, 7-year average, Marquis 11.4 per cent, Red Bobs 10.4 per cent, Thatcher 11.6 per cent.

In oats, height is rather important. The 7-year average heights of oats in inches, at Edmonton, were: Banner 37.4, Eagle 34.0, Legacy 34.9, Victory

Support the Red Cross!

Grass-Legume Mixtures Provide Valuable Pasture

forage crops and small native Stations and some are very promising farm pastures are often replaced by more productive cultivated mixture as there is danger of stock

The forage division at the Swift Current station has tested many crops and combinations of crops, comparing them for yield and appraising their relative merits. In addition, co-operative work with farmers and ranchers has provided considerable information TITAN-relatively early, good but not on the performance of various crops particularly high yield, smooth awns, alone and in mixture under actual very strong straw, very resistant to grazing practices. The recommenda-loose smut. It holds its head erect like tions made here are based on the regrazing practices. The recommenda-

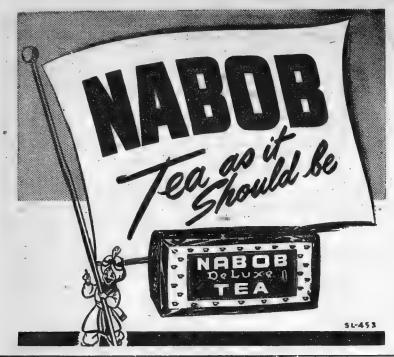
Grass-legume mixtures have consisof straw and the way it stands abuse tests. Crested wheat grass should be LEGACY—earlier, somewhat stronger most completely gone from the north, growth very early in the spring and is soil drifting.

ULTIVATED pastures are be- particularly valuable as early spring "that in 10 years—perhaps in 5—it will be in the same position as Mar. Coming more important in quis wheat—going but not gone, and the drier portions of the prairie where moisture conditions are slightly where moisture conditions are slightly and culture the same position. provinces. Land submarginal more favorable. Other grasses are befor grain production is seeded to ing tested at Dominion Eperimental

pastures. It is important that bloating on it. Common yellow sweet the most productive crop or clover may be used, but being a bicrops be seeded on these areas, ennial it may not remain in the field says Experimental Farm News, as long as alfalfa. Pasture mixtures are superior to single crops in that more forage is produced which is more nutritious and provides variety for the livestock.

The following is suggested as a suitable mixture for the drier areas: pounds crested wheat grass, 2 pounds brome grass, and 1 pound alfalfa or sweet clover per acre. Where moisture conditions are slightly more favorable, more brome and a little less crested wheat grass may be used. The mix-ture should be seeded early in the spring or just before freeze-up in the really dry. The color and appea auce tently outyielded grasses seeded alone fall, through every run of the seeder of the grain are often poor. Its strength or in mixture with each other in yield (6-inch spacings). Early fall seeding is not recommended because aifalfa may make it popular where barley is the principal constituent in any dry- and sweet clover seedlings winter kill grown on fallow land or where it is land mixture. It is the most drought-readily. The depth of seeding should combined.

resistant of all cultivated grasses and be less than one inch. A stubble field TREBI-B coarse short weak, very is highly nutritious and palatable is preferable as a seed bed as the land high-yielding, rough-awned variety. Al- while in the leaf stage. It starts is firm and the trash cover prevents







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aundering Rules For Gloves

wear from your few precious pairs of good gloves if you'll follow a few tried and true lukewarm water until no sign of soap laundering rules. First, of remains. course, you must make certain that your pigskin, cape, chamois, doeskin, buckskin, goatskin or 'washable" on the inside.

If they are, then frequent laundering is advisable. Severe soil makes extra rubbing necessary, which may injure the to work out stiffness. finish and roughen the surface.

Unless special directions are given by the manufacturer, you'll find the following suggestions safe:

Don gloves and dip hands in mild, lukewarm suds. Squeeze and press them while immersed in the water, but do not rub or brush them vigorously. Exceptions to this hand-in-glove rule should be made in the case of chamois or doeskin, which should be washed off the hands because they soften when wet and may stretch or tear.

When gloves are clean, peel them lar to shoe bags.

You can win more weeks of off gently from the wrist. By filling the gloves with water while they are still on the hands, you will be able to remove them easily. Then rinse in

Glove experts advise a final rinse in light soapy water for chamois, doeskin and pigskin. Or, if you prefer, they suggest a little glycerin in the last calfskin gloves are stamped rinse to soften and restore gloss to pigskins.

> Roll gloves in bath towel to absorb extra moisture. Never wring gloves or dry them over a radiator. Just before they are completely dry, rub gently

Glass tumblers that have stuck to-gether may be separated by putting cold water in the top one and setting the bottom one in warm water.

Cretonne pockets, thumbtacked to the inside of a dresser drawer, will make handy receptacles in which to keep bobby pins, costume jewelry and other odds and ends. The pockets may be sewed separately or in groups simi-

DEAR COUSIN JANEY, or dinner. I wonder if you have and two or three cups of water. of milk with two or three slices of onion. Melt two tablespoons of butter in the top of a double boiler, and blend with two tablespoons of flour until smooth. Stir into this the heated milk and a little salt and cook in a double boiler, stirring constantly, until thick. Into this stir two beaten egg yolks. Cook one minute and add half a cup of grated cheese or more if desired. Egg yolks may be omitted but make a richer soup

Corn soup can be made in a hurry Simmer two cups of boiling water with one can of corn and a slice of onion, for twenty minutes. Press through a sistency of cream. sieve. Make a white sauce of two cups of milk, two tablespoons each of butter and flour, and a teaspoon of salt. Add Salmon soup may be made from the vegetable pulp and serve hot. One fresh or canned salmon. If the formtablespoon of chopped parsely may be er, use one pound, wash, put in a

stir into the heated milk. Meantime, spoon of butter and two of flour-Stir the milk slowly into the tomato a large one. mixture. spoon of whipped cream to each plate mon evenly and add to the sauce and a few dashes of paprika as a topper.

If you care for clams you will-like

On this soup. ..Put one raw these blustery days soups slices of bacon, two onions and a can are acceptable either for lunch Add the juice from the can of clams ever prepared cheese soup; it is until the potato is well cooked. Add a somewhat out of the ordinary, pinch of soda, a teaspoon of salt and and we like it. Scald one quart three or four rolled crackers. Add three cups of hot milk and serve.

A cheap, but nevertheless nourishing and palatable soup, is made from dried beans. Wash four cups of dried beans (preferably the small white ones), cover with water and soak over night. Next morning, drain, put them on to boil with two quarts of cold water. As soon as they come to a boil, drain this water off and throw it away; this prevents the soup from being strong. Now cover again with two quarts of boilingwater, add a quarter teaspoon of soda. and boil until reduced to a pulp. Now, when you have the canned product, press the beans through a sieve, return to the soup kettle and add sufficient water to make the soup about the consistency of cream. Add salt and perper to taste, and a large tablespoon of butter.

saucepan, cover with boiling water and Tomato soup is an old reliable, but simmer fifteen minutes. Take from needs care in preparing, in order to the water, remove the skin and bones, avoid curdling. Heat three cups of and mash the fish in a colander that Blend 2 tablespoons of butter a quart of milk, or half milk and water. with 2 level tablespoons of flour, and on to boil. Rub together one table in another vessel, heat three cups (or them to the milk when boiling, stirring one can) of tomatoes, a few drops of constantly until it thickens. Now add onion juice, and a teaspoon each of the salmon, let it come to a boil and salt and sugar. When hot add a serve. If using the canned salmon, quarter teaspoon of soda, and strain. You will require one small can or half Drain the oil from the When serving add a dessert- salmon and discard it. Mash the sal Serve hot.

Hope you enjoy these soups.

ECTED RECIP

GOOD stew is a culinary triumph. SCONES They may be made from a wide choice of meats, and variety may be achieved by combining different meats. Whatever the ingredients or method, all stews should be good.

If the meat is dredged with flour, it develops flavor, thickens the gravy and gives it a more attractive color.

Variety may also be obtained by the use of different vegetables which vary in flavor, color and texture. Onion always adds interest in flavor but use only one other strong-flavored vegetable such as turnip or cabbage. Add the vegetables just in time to cook tender. Many a stew has been spoiled by over-cooking the vegetables. Additional salt will be required when the vegetables are added.

Stews afford the ingenious homemaker a wide scope for her imagina-Try a cup of sour cream in a veal stew, or a little curry powder in a lamb stew. Marjoram and thyme or a little bay leaf are good seasonings. Experiment cautiously and taste carefully. The flavor should be subtle.

Attractiveness in serving is impor tant to the success of any stew. the meat and vegetables are arranged on a platter, and the gravy served from a separate dish, it may have more eyeappeal. Omit potatoes from the stew when dumplings, baking-powder biscuits or noodles are served as accompaniments.

To Make a Good Stew

Cut meat in uniform small pieces. Season well and dredge with flour, if

Brown meat in hot fat.

Add only enough liquid to cover. Cover closely and cook slowly at simmering temperature until tenderabout 11/2 to 2 hours.

Never allow a stew to boil hard. Add the vegetables just in time to ORANGE BREAD PUDDING cook tender - about 1/2 hour before

Remove meat and vegetables before thickening the liquid for gravy.

SPANISH STEW

- 11/2 lbs. veal (breast, shank, flank, neck or shoulder)
 - 2 onions
 - 1 cup diced celery
 - into pieces)
 - 2 cups water
- 2 cups tomato juice Seasonings

into 11/2-inch cubes. flour, brown meat and onion in fat, poach in a moderate oven at 350 detaken from meat. Add water. Bring grees F., for 40 minutes. Six servings. to boiling point and simmer 1/2 hour. Add remaining ingredients, season and PARTY SQUARES simmer 1 hour longer. Thicken with a paste made of flour and water. servings.

STEW SUPREME

- flank, neck or shoulder)
- 2 tablespoons fat
- 1 cup chopped onion
- 21/2 cups canned tomatoes
- teaspoon salt
- 11/4 teaspoons spicy meat sauce
- 3 medium carrots, diced
- ¼ cup chopped green pickle (optional)
- 1/2 cup sweet or sour milk

Cut the meat in narrow strips, 1-inch in length. Brown meat with onion in hot fat. Add tomatoes, salt and meat ents. Add carrots and continue green pickle and the milk. Six servings. squares. Makes 16 squares.

- 3 cups all-purpose flour
- 4 teaspoons baking powder
- 1 tablespoon sugar
- 1/4 teaspoon salt
- cup seedless raisins
- 3 tablespoons fat
- 2/3 cun milk
- 1 egg

Sift dry ingredients. Add fat. Mix until well blended, add raisins. Beat egg, add milk and mix with dry ingredients, to a soft dough. Cut in three equal portions, shape each in a round about ½-inch thick and cut each in quarters. Place on a greased baking pan; bake in hot oven, 435 degrees F., for 20 minutes. Makes 12 scones.

CHICKEN SURPRISE

- ½ pound spaghetti (unbroken)
- tablespoon fat
- tablespoon flour
- cup milk
- 1 egg yolk
- Salt and pepper to taste
- cups finely chopped chicken
- cup cooked mixed vegetables
- tablespoon chopped vegetables 1 tablespoon chopped parsley

Cook spaghetti in boiling salted water being careful not to strands. Drain and rinse in cold water.

Line a deep, greased mould with the long spaghetti. Make a sauce of the fat, flour, milk, egg yolk and salt and pepper. Add chicken, vegetables and Fill centre of mould with this mixture and cover with spaghetti. Steam on top of the stove for 45 to 50 minutes if made in one large mould or for 20 to 25 minutes if made in individual moulds. If desired, this mould can be placed in a pan of water and baked in 325 degrees F. oven about 50 minutes.

Unmould and serve with tomato or any desired sauce.

- 4 slices white bread
- 2 tablespoons butter
- cup orange sections or slices
- 3/4 cup orange 3 egg whites
- 1/4 teaspoon salt
- cup sugar
- 2 tablespoons grated orange rind
- 3 egg yolks
- 1/2 cup milk

Spread bread with butter and cut in 1 cup uncooked spagnetti (broken cubes. Place in greased baking dish and arrange oranges on top. Add salt to egg whites and beat until stiff. Gradually beat in the sugar and add orange rind. Beat egg yolks; add Wipe veal. Remove fat. Cut veal milk and fold into beaten egg whites. Roll meat in Pour over bread mixture and oven-

- 1/2 cup fat
- 2 cups sifted all-purpose flour
- 1 cup brown sugar
- 1/2 cup raisins

Cut fat into flour and sugar with a 1 1/2 lbs. lamb or beef (breast, shank, pastry blender or two knives, until it resembles fine oatmeal. Pat three-quarters of the crumb mixture into the bottom of lightly greased, square cake pan, 8 in. x 8 in.

Filling-

- 1 cup sour table cream
- 1 teaspoon soda
- 1/8 teaspoon salt
- teaspoon nutmea 1/4 teaspoon cinnamon

Beat egg and add remaining ingredi-Pour mixture over crumbs in sauce. Cover closely and simmer 2 to pan. Sprinkle with remaining crumbs. Top with 1/4 cup of chopped nuts, if cooking for 20 minutes or until tender. desired. Bake in moderately slow oven, Ten minutes before serving, add the 325 degrees F., for 60 minutes. Cut in



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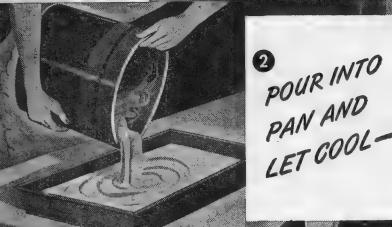


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MADE IN CANADA

WE have always suspected the March Hare went mad try- and length. Sew by hand or machine. ing to predict the weather. At least the winds of March are cuffs, muffs, trims from remodelling, mad-one minute it is spring old fur, rub sawdust or corn meal and the sunshine beams bright moistened with dry cleaning solvent, and beckoning. Then the wind well into the fur, then brush out and blows wild and chill and a flurry air. of snow comes from the big dark cloud that blows backwards and forwards across this farm three times in a single day. There is squall and sudden calm, a collision of winds from the N.S.E.W. The March Hare would glory in the interchange, it would all make rhyme and reason to him. Of course the March Hare may have some grounds for being mad, for Winter is pulling him back and Spring is tugging him on, and we know who will win.

Well, it is safe to keep ear-flaps and mittens handy. I notice the Lady of the Farm wears a strange turban sort of thing that makes her look like an Arab trader, or would if a burnoose and a camel were added. The hens For make-over and sewing sugges-were thrown into a fit of hysterics tions, write to the Home Economics the first time she approached them in Division, Department of Agriculture, such un-looked-for head gear.

The small wild feathered things are not so susceptible to shock. They lose their timidity with their independence, and out of a biting wind and into the sanctuary of the house-yard they A Young idea gather for pantry scraps and table titbits. Long ago the rose-bushes have all been cleared of the scarlet berries that reached above the snow, and hungry beaks have stripped the tiny nutty seeds from the tall gaunt weeds along the fences. They seem to have plenty to talk over among themselves, probably cheering one another with hopes of the plenty that may soon come to replace the lean and bitter winter fare.

For thousands of years scientific earthlings have been studying the skies, and at last some learned moderns have found high-power microwave equipment which will discover secrets of the heavens. Star-gazing on my part has simply been an exciting pleasure. I revel in the beauty of the twinkling, jewelled lamps that light up a crisp, clear night, though I know very little of their histories or the facts of their searing fires. I know that those who raise their eyes to the stars find a new uplift of spirit unknown to those who keep their eyes on the ground.

I think, too, many farm women look up at the stars on a windy March night and feel the promise of spring in their hearts; and watch the dark night clouds come drifting over, as they call the men of the family to the supper table set in the midst of warmth and love that is home.

New Ways With Old Felts and Furs

FELT, quite plentiful in the homes of people who have a weakness for hats, can be renovated then used again in new style hats or made over into other useful things such as bedroom slippers, calots, mittens, dress belts, and skirt suspenders. Felts not badly soiled can be put in condition with stiff brushing. Dry cleaning solvent or fine sandpaper may be needed on others for removing spots, while some may have to be washed in soap suds. If washed. care should be taken not to pull the felt apart or punch holes. When cut-

Old fur such as old coat collars, etc., can be put to good use. To clean To glaze, brush the fur in the direction it grows, with a wet sponge. When dry, comb it, then with a hot iron sweep down over the fur quickly and lightly to glaze it.

Fur can be pieced together in any number of seams and directions, but always match the flow of the fur so seams won't show. Cut fur with a razor blade—not with shears—and from the skin side. Seam by overhanding with waxed thread.

Short-haired furs may be used for coat trims, vamps for bedroom slippers, trim on hats, bonnets, school girl muffs, mitten backs or linings, belts and buttons. Long-haired furs are not quite so adaptable but can be re-used for coat trims or suits.

Parliament Buildings, Edmonton.



A spring-through-summer model so simple to put together, a teen-ager can make it herself! Pattern 4832 has a front-drawstring neckline, new sleeves, inset belt, pert pocket,

Pattern 4832 comes in teen-age sizes 10, 12, 14 and 16. Size 12, frock, takes 25/8 yards 35-inch fabric.

Send TWENTY CENTS (20c) in coins (stamps cannot be accepted) for Print plainly SIZE, this pattern. NAME, ADDRESS, STYLE NUMBER.

Send your order to Farm and Ranch ting out a new article, allow roominess Review, Pattern Dept., Calgary, Alta.

Care of Hands and Feet

and this helps keep them healthy. But of the tested brands. in winter they are not always bathed every day as they should be; they are bundled up in heavy woollen stockings, often times there to fret and perspire, or else they are exposed to the elements through sheer stockings and low shoes which offer them no protection.

They are nipped by the frost and visited by chilblains and corns. louses and bunions may "adorn" them; nails may be allowed to grow in, and really happy feet are rather rare.

What can be done to protect them? Avoid letting the feet become so overheated that they perspire and then get chilled on very cold, damp days. Remove overshoes and rubbers as soon as you enter a warm place.

Avoid socks or stockings so short that they cramp the feet. These can do as much harm as shoes which are too small. Soak the feet every night before going to bed, and rub them with alcohol. Keep the nails cut short and cut them straight across or else curve them down a bit in the centre. If a nail starts to grow in there must be pressure somewhere. Lift the ingrowing edges very gently and insert beneath them some tiny pieces of cotton. If corns, callouses or bunions develop again seek the cause and remove it. But meanwhile relieve the pain and the pressure by means of unmedicated pads, which you can get in any drug or ten-cent store. They fit over the offending places, and keep the shoe from pressing. These are harmless, whereas some medications are capable of causing real trouble. Beware of blisters, sore spots, or any kind of eruption. Never wear anyone else's shoes or slippers next to your bare feet. Ringworm and athlete's foot are easy to acquire, but very difficult to get rid of.

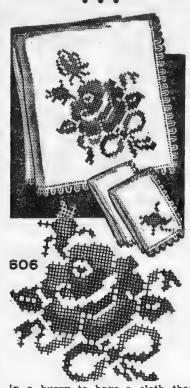
Hands, too, are sadly neglected. In winter they are more exposed than are the feet. Chapped hands are not only painful but may also bea very real menu.

Any break in the skin, no come health. matter how minute, allow germs to enter-germs which may find their way into the blood stream and cause serious or even fatal infection.

Chapped hands, and incidentally lips, should be avoided. It is easier to avoid "chap" than to heal it. Through chapped lips and broken-open cold or fever sores it is possible to contract very serious diseases if the lips are brought into contact with infected cups, towels, or other lips. The same is true of hands which are chapped and bleeding. Thorough drying of wet hands, the constant use of oily hand lotions-which can be bought or made at home (glycerine and rose-water is an old standby) will help keep the hands from chapping. Mild soaps should be used for washing dishes, hands and clothes.

Never pull a hangnail out but very gently clip it off leaving the stump and tucking it back where it will not catch and bleed. Put a piece of adhesive over it until it has entirely healed. But you never will have any hangnails if you give your hands proper care. not cut the cuticle. Keep it soft with oil or cold cream and do not push it too far back. Keep your finger nails in healthy condition by replacing the lost oils very often so they will not become brittle and crack. Some scientists have recently discovered a way to waxy finger nail protective liquid which is very beneficial and safe. A ten-cent bottle will last a month or

neglected despite the fact that they from root to tip, it will keep the nails are so indispensable to our well being. from breaking and give them a chance Poor, patient feet! How much ill treat- for the healthy growth they should ment and neglect they do endure. In have. There are now several makes hot weather they are bathed frequently on the market, but it is best to buy one



In a hurry to have a cloth that's colorful and lovely? Choose this one! The effective design is in quick 5-tothe-inch cross-stitch.

Use these jiffy embroidery motifs on 606 has transfer of 8 motifs $8\frac{1}{4}$ x $10\frac{1}{4}$ of nose. Be particularly careful with to $2\frac{1}{4} \times 2\frac{1}{4}$ inches; stitches.

Send TWENTY CENTS (20c) coins (stamps cannot be accepted) for this pattern.

Print plainly PATTERN NUMBER, kins, your NAME and ADDRESS.

You will prefer it

SAFETY IN THE KITCHEN

Knives lying around the kitchen can be dangerous. Keep them in their place, suggests Mrs. V. Macdonald, Supervisor of Women's Extension Service. Keep them in a knife drawer out of reach of children's exploring hands, or in a knife rack with sharp blades protected and only the handles exposed Directions for making two simple kinds of knife racks are available in the form of a circular from the Home Economics Division.

Cooking utensils in use provide an other too frequent form of danger both to children and adults. Handles of cooking utensils should always be turned away from the edge of the stove. A quick tip-up or pull from hasty motions, or curious children peeking under the covers to see what is cooking, may result in a serious accident. Then there is that dangerous steam when a cover is lifted from something that is cooking. A good rule to follow is to always lift the far edge of the cover first to avoid any rush of escapcloth, scarf and other linens. Pattern ing steam scalding the face and inside the roasting pan.

> To ensure the removal of lipstick stains from handkerchiefs or table napwith glycerine rub





For the reader desiring the address of a needle-craft magazine, Mrs. L. K. L., Minnesota, writes: "I'm sure the needlework lover would like Aunt Ellen's WORKBASKET. This monthly pattern and direction service brings the latest creations in handcraft and needlework from the country's foremost artists and designers. It is \$1.50 a year in Canada for twelve issues, but no samples are sent because each issue contains large hot iron transfer patterns as well as ideas for such items as doilies, edgings, bedspreads, tablecloths, hats, bags, and baby's things. Orders should be sent to the WORKBASKET. 4888 Westport Station, Kansas City \$, Mo. U.S.A., with currency or money order." If you are not delightfully pleased with the first issue, Aunt Ellen will return your money and you may keep the material you have received without any obligation.

Why Most Young Mothers Use this External Way To Relieve Miseries of Children's Colds







Starts to work right away.. Keeps on working for hours!

Promptly Helps Relieve Coughing Spasms, Muscular Soreness or Tightness, Congestion and Irritation in Bronchial Tubes

It's really dangerous to neglect a child's cold! Most modern mothers know this.

That's why they turn to the time-tested home remedy for relieving miseries of children's colds—Vicks VapoRub. Experience has taught them what to expect when they rub VapoRub on throat, chest and back at bedtime. Almost at once—in 3 minutes or less—the penetrating-stimulating action of VapoRub (explained above) starts bringing relief.

For hours this grand double-action keeps on working. Invites restful, refreshing, strengthening sleep. And often by morning most of the misery of the cold is gone.

Now when anyone in your family-child or grown-up—catches a cold, do what most modern mothers do, and use dependable

FIRST for RICHNESS FROM GROCERS, CHAIN, and DEPARTMENT



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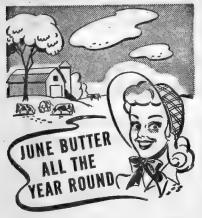
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MADE IN CANADA . MEETS ALL PURE FOOD LAWS

Modern War Brides Are Lucky

By EDNA JAQUES

FROM the doorstep of her home overseas until she steps off the train at her destination the 1946 war-bride is looked after like a prize rose.

Of all the 20,000 who have come, "not one has been lost" say the authorities, and out of this vast number of new marriages only 23 wives have asked to be returned to their homes.

Ever since pioneer days, when Canada was just emerging from the wilderness, bride ships have been coming to these shores.

First, it was the French King who sent young girls to Canada to marry the early settlers along the St. Lawrence.

Then the English bride ships came "around the Horn" with wives for pioneers along the west coast from California to Victoria, long before the 49th parallel was thought of. Many west coast people proudly trace their ancestry back to these girls who made that fearful journey of over ten thousand miles by sea.

Now they're coming again by the thousand . . . girls from the British Isles, from Holland and France, from Denmark and Switzerland, Athens, Belgium, British Guiana, New Zealand, Australia, India, Ceylon, Cape Town, Malta, Egypt, and from our nearest neighbor, Newfoundland.

The London War Brides' offices are eseiged with applications. Canada House has a standing list of around 3,000 with a first priority rating. cidentally there are 16 shadings of a first priority.

Some of these so-called "brides" have been married as long as five or six years. Many of them have children. And what the W.P.T.B. is doing to provide comforts for these little new settlers is something. The Prices Board Administrator in Montreal is at his wits end to provide the necessities of life for them.

Imagine a ship's requistion sheet asking for paper diapers by the thousand, rows and rows of nursing bottles and nipples. Pablum by the carton, baby food of a dozen different brands, milk powder, fresh milk by the hundred quarts, cod liver oil. pink and blue bunny blankets.

They're coming on everything that floats from a corvette to regular troop ships. Three came on a flat-top, the Puncher. Some came on tramp steamers, luxury ships. A few came by air. Atlantic by air.

January was a big month were booked for Canada. February we expect to receive between 6,000 and 8,000, according to shipping space.

Wives of Air Force men already number 2,217, with 679 children and 7,000 still to come.

The minute a wife registers the long story begins. Once under way the giant wheels of destiny being to turn She is given everything from the baggage labels to hostel accommodation with meals, from her home to the new home she's headed for.

Once aboard ship, she and her children are looked after by Red Cross workers, and when they dock, immigration officials go aboard to complete the formalities which make them Canadian citizens.

Then they are placed on "Brides' Trains" and start across Canada. It's a long journey from a little English ingly fit and happy when they arrive

They gasp at the plentiful helpings selves to a real pedicure

they receive and the quantities of fruit served with their meals on the trip. For one breakfast, for instance, they may have what would be a week's ration of bacon and a month's ration of shell eggs in England . . . two and onehalf slices of bacon and two eggs.

They think it's pretty nice!

The Dishpan Philosopher

LOT of us, it seems as though, are letting lots of freedom go. Of freedom to do this and that we have our discourse all down pat. With scarce a thought though we decline our freedom NOT to stand in line. We toil and struggle all life through to do what other people do, and get what other people get at any price of fuss and fret. The Joneses are the snag of course - they clutter freedom at its source, and lead folks on to grab and slave right from the cradle to the grave, to keep abreast the neighbors' pace, and help to standardize the race.

I guess if progress is to thrive ambition must be But simpler kept alive. living with less strain it seems to me would be a gain. And I for one spend happier days since learning freedom works both ways.

Aunt Sal Suggests:

Snow, snow will go away, And come again some other day: But Handy Hints are here to stay, To help you at your work and play

HE "ricer" is that kitchen utensil usually associated with potatoes but actually it has many uses in the Have you ever thought to call on it to squeeze out hot cloths for compacts in the sick room?

Onion juice will add that telling A special medical is required for this touch of flavor to many foods, but and no child under 16 can cross the onion juice is also the sworn enemy of scorch ... so when your iron leaves a "hot mark" on father's best thirt, call on onion juice and cornstarch.

> Milk is one of the best bone-building foods there is. And when we remember that 51% of a person's height is achieved in the first two years of life, no wonder that we say milk is the essential food for small children.

> Waxed paper has so many good uses for instance did you ever place a neat square of it under the youngsters' plates: very unnoticeable and saves many a stain on the tablecloth

> Have you given your 1946 calendars a coat of clear varnish? Better do so before they get wilted looking They will reward you by bright, shiny faces all year through.

Our feet do enough for as, surely village to Canada, but they're making they deserve some consideration Why it by the thousands and look astonish not spend less time fussing with our faces, hair and hands and treat our

Wooden clothes pegs that are boiled about once monthly will prove more endurable.

When adhesive tape or plaster will not adhere because of cold or because it has dried out with age, just heat it for a few seconds to renew its adhesiveness.

To Save Money, Mix Your Cough Relief at Home

So Easy! No Cooking. Quick Relief.

So Easy! No Cooking. Quick Relief.

Even if you're not interested in saving good money, you surely want a highly effective relief for coughs, due to colds. So try mixing it yourself, in your kitchen, and be ready for a surprise.

It's so easy to mix, anyone can do it. Make a syrup by stirring 2 cups of granulated sugar and 1 cup of water a few moments, until dissolved. No cooking is needed. Or use com syrup or liquid honey, instead of sugar syrup. Put 2½ ounces of Pinex (obtained from any druggist) into a 16-oz. bottle. Then fill up with your syrup. This gives you 16 ounces of cough syrup, about four times as much for your money. Tastes good—children like it. Never spoils, lasts a long time.

But what you'll like most is the way it takes right hold of a cough. It loosens the phlegm, soothes irritation, and helps clear the air passages. Eases soreness, and lets you sleep. You'll say it's hard to beat, for results. Pinex is a special compound of proven ingredients, in concentrated form, well known for quick action on throat and bronchial irritations. Try it, and if not really delighted, your money will be refunded.

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60 pills—60cts. 180 pills—\$1.50



Zw... Faster Rising! -ENDS OVERNIGHT BAI



MAKES BETTER BREAD IN "HALF THE TIME!"

NEW Fast Rising Royal Dry Yeast is here! The high-speed baking discovery that gives you bread with that old fashioned, home-baked flavor your menfolks lovein less than half your normal baking time!

Easy to use . . . extra-fast . . . new Fast Rising Royal Dry Yeast does away with "setting bread" the night before when you're all tired out ... eliminates the old-time risks of "overnight baking" when temperature changes might spoil dough.

4 packets in each

carton...oach packet

makes 4 large loaves.

MADE IN CANADA

You do your baking in the day with new Fast Rising Royal so you can keep a watchful eye on the dough. New Fast Rising Royal's speedy action gets to work soon after yeast is mixed with dough—helps you get baking chores done in jigtime!

New Fast Rising Royal keeps for weeks on your pantry shelf ready for quick action whenever you need it.

Use New Royal Fast Rising Dry Yeast! It saves time saves you. At your grocer's.

1945 AN OUTSTANDING YEAR

NEW INSURANCE \$2,831,895.00

TOTAL BUSINESS \$13,236,237.00

TOTAL ASSETS (69.5% Dom. Canada Bonds) \$2,650,290.00

TOTAL PAID—Policyholders and Beneficiaries \$129,770.00

SURPLUS FUNDS... \$300,000.00

A copy of 32nd Annual Report will be mailed on request to Head Office, Regins, or to any Branch Office.

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FARM IMPROVEMENT LOAN ACT, 1945

Improve your farm lands, your buildings, increase your herds and generally further the efficiency and productive capacity of your farm.

Loans for the purchase of livestock, of agricultural implements . . . for the installation, alteration, or improvement of farm electric systems . . . for the construction, repair or alteration of farm buildings . . . for fencing, drainage, improvement, or development of farm lands.

Loans are repayable in instalments over a period up to ten years. Cost . . . simple interest 5% payable on each instalment date.

> The Manager will be glad to discuss your requirements with you.

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"The Bank for You"

"Calf Savers" Remedy For Early Diseases

Dairymen and farmers who have been losing calves each year from scours and other early calfhood now definitely established the cause of a high percentage of occurrences of scours, pneumonia, navel infection and other early calfhood ailments. These experts have proven that, at birth, the calf is deficient in Vitamins A and that unless the Vitamin A in the calf's blood Cardston Sheepmen is increased greatly immediately after birth, the calf is in danger of developing nutritional scours, pneumonia Zone directors were elected as fol-and other related early calfhood ail- lows at the recent annual meeting of scours, digestive ills and rickets.

this research, VioBin (Canada) Limited sen, Aetna; J. T. Walburger, Mountain has perfected a complete treatment in View; Evans Bradshaw, Caldwell; capsule form that not only supplies the Robert Lowe, Carway; Ray Oakey. amounts of Vitamins A, D and Niacin Boundary Creek. Directors will be serecommended by nutritional experts lected later for Glenwood, Harrisville but also provides the plus value of an and Leavitt districts, and the board additional 20,000 units of Vitamin A during the particularly dangerous first the year. seven days of the calf's life. These capsules are being marketed under the reported that the association had name "Calvita" Calf Savers and each handled some \$50,000 worth of sheep sealed box of 21 capsules is a complete and lambs and an equal amount of treatment for one calf, with simple feeding directions clearly shown

PREY ON LIVESTOCK

Exclusive of ticks and mites, more than 200 species of insects are known to attack livestock in Canada. Horse flies constitute a large group about 100 species occurring in Canada.

LANDRETH ELECTED

Council at the annual meeting, held Baker, Estlin; F. Chase, Plunkett; recently. Named to office with him Jonathan Fox, Jr., Lloydminster; Lyle were C. L. Anderson, Winnipeg, vice Doan, Stony Beach; B. H. Moore, Rouchairman, and Dr. J. M. Isa, of the leau; W. A. Mitton, Gray; Robert Alex-Veterinary Laboratory, University of ander, Saskatoon; T. Hargrave, Big-Manitoba.

JOHN HAMILTON DIES

A farmer prominent seed grower of Southern Alberta, John Hamilton, 75, died recently at his Vancouver Island He won fame as an exhibitor home. of grains and had won 64 ribbons and trophies at Chicago, Toronto and other diseases will welcome the news that large shows. His exhibits of peas and leading call nutrition authorities have beans were awarded world championships five times at the Chicago International and his farm at Coaldale was one of the show places of the West.

Elect Directors

ments. Their research also shows the the Cardston and District Sheepmen's addition of Vitamin D and Niacin fur-Association: M. C. Caldwell, Hill-ther eliminates the tendency towards spring; Thomas Hatch, Woolford; Roy Beazer, Beazer; Fred Gilb, Cardston; Based on the practical application of T. W. Rasmussen, Delbonita; M. Jenwill then name executive officers for

> Secretary-treasurer Howard Oliver wool during the past year. H. J. Hargreaves and W. S. Benson addressed the gathering. Considerable interest is being shown in the new Romlette breed of sheep, and it was announced a limited number of rams of this breed would be available next fall.

The Saskatchewan Belgian Olub reelected Robert Thomas, Grandora, as W. A. Miller, Avonlea, is president. vice-president; Dr. J. L. Millar, Re-W. A. Landreth, Winnipeg, was re-gina, secretary-treasurer. Directors elected president of Manitoba Poultry are: L. R. Zurouski, Southey; Joe gar; Alex Weir, Aberdeen.

THE CORRECT ANSWER "COMBINE" FIGURE PUZZLE

1702

THIS is the total of the figures that the artist used in making the "Combine Puzzle Picture". Under the supervision of the Contest Department, two experts solved this puzzle using an electric adding machine. The figures were checked and rechecked until all doubt concerning the correct answer was removed.

The competition for the prizes was so keen that a second puzzle was necessary, and it has been sent to the tieing contestants so that the prize winners can be decided. Apparently contestants, checked and rechecked their work until almost certain of success, hence it is not surprising that more contestants secured the correct answer than there were prizes. Since this is the case all prizes have been reserved for these tieing contestants. "Special Prizes" for first correct solutions received will be awarded at the same time as the regular prizes.

One of the conditions of the second puzzle is that all Tie Breakthe contactions of the second puzzle is that all He Break-ers must reach contest headquarters not later than March 30, 1946, as the complete list of prize winners together with a photo of the winning chart, is scheduled to appear in the June 1st issue of the Farm and Ranch Review.

Great enthusiasm was shown throughout the contest, and Farm and Ranch Review takes this opportunity to congratulate contestants who secured the correct answer. Readers apparently found the "Comwho secured the correct answer. Readers apparently found the "Combine" puzzle extremely interesting and educational and two hundred and forty will find it profitable also. The Farm and Ranch Review wish to thank all those who helped to make the contest such a big success, and once again wish to assure all contestants that the prizes will be awarded with absolute impartiality and in accordance with the rules as outlined by the judges. Here's wishing you luck.

COMPLETE LIST OF PRIZES WILL BE PUBLISHED IN OUR JUNE ISSUE.

National Research Council Will Continue Many Peacetime Agricultural Projects

THE National Research Council and co-ordinating of national co-opera- fuels, synthetic rubber, and wool. ing activities as well, this important body is much better equipped now than it was then to carry out a research program of vital importance to agriculture, industry and the public in general.

In addition to the spectacular wartime developments named above, many of which will be applied to peacetime work, a number of less known projects were started which give equal promise for the future.

Work has been projected on a modification of wheat starch with a view to the replacement of corn starch and other starches in commercial use, by prepared wheat starch. Success in the project depends on the utilization of gluten other than as feed perhaps by its conversion to glutamic acid for food flavors and other uses. Pure glutamic acid is not a commercial product but a crude acid might find a ready sale. Some work has been done on the utilization of agricultural residues such as straw, bran and hulls. Furfural dehas been found to be promising as an antifreeze.

MODIFICATIONS in bacon cure, refrigeration of ordinary cargo ves- dian Head, Sask. sels, preservation of shell eggs by oiling; preparation, packaging, preservation and shipment of dried eggs and shelterbelts are as follows: dehydrated pork; all received attention in order to ship a good product to Britain despite wartime shipping de-

Resin from milkweed leaves was found to be a substitute for chicle in the manufacture of chewing gum.

The Council at present is engaged in developing a new method of heating houses by floor or ceiling radiant heat, and is investigating the effect of window ventilation in severe weather if floors are heated. Part of this project concerns itself with the measurement of moisture in wheat and the speed with which this moisture moves from one part of the stored wheat to another. This problem is of considerable importance in connection with the preservation of stored wheat from mites. Work is continuing in developing suitable thermostatic control for refrigerator cars.

Research is proceeding on improved safety codes, new methods of house wiring and problems of rural electrification. The war disclosed serious faults in certain lines of electrical machinery and studies to overcome these were undertaken, and will be continued because of important peacetime applications.

THE National Research Council has of them across Canada. It acts as adtional Defence, Reconstruction and damaged by late spring frosts. Supply. The third important function

of Canada, which did invalments as radar, explosives, function is performed generally search activities in which the aeronautics and the atom bomb, through "associate research commit- had an extra-mural interest. turning its attention to peacetime research. Expanded to four
Council but they operate as associa weed research. times its staff and six times its tions of the leading experts in their Medical committees, in effect, conbudget of 1939, and with greatly particular research fields. They restitute a division of the Council's exincreased indirect expenditures ceive financial grants, lay out programs, tra-mural activities. and organizing and co-ordinat- and allocate problems to various laboratories.

Among the 33 associate committees

Other committees served as co-or uable war work in such develop-have an active interest. This third vestigation and directed or guided research activities in which the Council to mention only a few, now is tees", a distinctly Canadian mechanism others, these included committees on field crop diseases, fish culture, forestry, grain research, parasitology and

> More than 200 of Canada's leading research physicians and surgeons are now serving without fee, on these committees, in organized under the Council and active the planning and direction of medical during 1944-45 several were directly research which is being carried on in concerned with work in progress in the the university, medical schools and in National Research Laboratories, as for several of the principal hospitals across example, work in aeronautics, corro- the Dominion. Great advances have sion, explosives, food preservation been made in medical practice during and transport, industrial radiology, pe- the war and the National Research troleum, radio research, substitute Council has fostered work in this field.

Successful Fruit Growing On Prairies Requires Good Shelterbelt Protection

WHILE successful fruit grow- mer for the flight of bees, and bees are is dependent upon, and influmost fruits. verv significant. Shelterbelt fied by soil topography, fruit sun. rivatives and their uses have been plantation exposure, subsoil studied. Tetrahydrofurfuryl alcohol moisture, irrigation, Chinook exposure, Dominion Forest Nursery Station, In-

Some of the specific benefits that re-

- ing of branches, and other damage to fruit and fruit plants by wind. Snow crush is practically eliminated if fruit both fruits and shelterbelts to develop. plants are planted no closer to shelterbelt trees than 20 to 50 feet.
- 2. They reduce soil drifting by which Depending on the type of shelterbelt. there is protection to crops against mechanical injury and soil drifting to the leeward for a distance of 16 to 50 feet for every foot of height.
- 3. They lessen loss of moisture from the soil as well as through the plants by reducing wind velocity. It has been recorded that evaporation of soil moisprairie conditions.
- accumulated snow, and a more uniform soil temperature results
- 5. Killing of plants or injury to them by extreme cold is not likely to be as great during winter if dense shelter- ALFALFA SEED IN 1946

ing in the Prairie Provinces essential for the cross-pollination of

8. Tree fruits protected by efficient enced by, many factors such as shelterbelts suffer less from sunscald soil type, moisture, and other cli- than unprotected trees. It has been matic factors, the value of ade- noted at the Forest Nursery Station, quate shelterbelt protection is Indian Head, that raspberries shaded by shelterbelts on the south side show much less injury from red spider mite benefits of course, are also modi-than raspberries fully exposed to the

subsoil WHILE there would be merit in de veloping and finding fruit variewinds, and the skill of the operator, ties sufficiently hardy to withstand the says John Walker, Superintendent, prairie climate without shelterbelt protection, shelterbelts help to bring about conditions which are almost as important and fundamental as hardiness, sult to fruit growing from efficient that is, delay in blossoming. For the wellbeing of shelterbelts and fruits 1. They prevent unnecessary break- alike, the latter should not be planted closer to the shelterbelt than 20 feet. By this arrangement there is room for

Successful fruit growers invariably have good shelterbelts. If growers are not prepared to care for shelterbelt mechanical damage to fruit plants and trees properly they are not likely to fruit, and soil impoverishment occur, give the necessary care and attention to fruit plants and a fruit plantation.

Increase in Smut Reported "Alarming"

In the 1944-45 crop year, some 317 cars of smutty wheat were marketed in Alberta. This figure represents what ture occurs ten times as fast in warm is considered an "alarming increase" wind as it does in calm air. Lack of Such losses could be almost entirely moisture is considered to be the great- prevented by treating seed prior to est drawback to fruit growing under planting, almost with a mercury dust such as ceresan or leytosan. Formal-4. They help to hold snow and con-dehyde is equally effective as a smut trol the movement of it. Shelterbelts treatment, but may injure germination also cause delayed melting of snow in of the seed. Bulletins giving informaspring. Root protection is provided by tion on smut treatment may be obtained from the department of agriculture, Edmonton

three main functions. It operates by well arranged shelterbelts. This is than required for Canadian use. The laboratories, at the present time eleven a particularly desirable effect with limited quantity available for export viser to the various departments of currants whose blossoms, or newly- quirements. Because of the exceptiongovernment, particularly those of Na- formed fruits, are so often frozen or ally high demand for this seed in the

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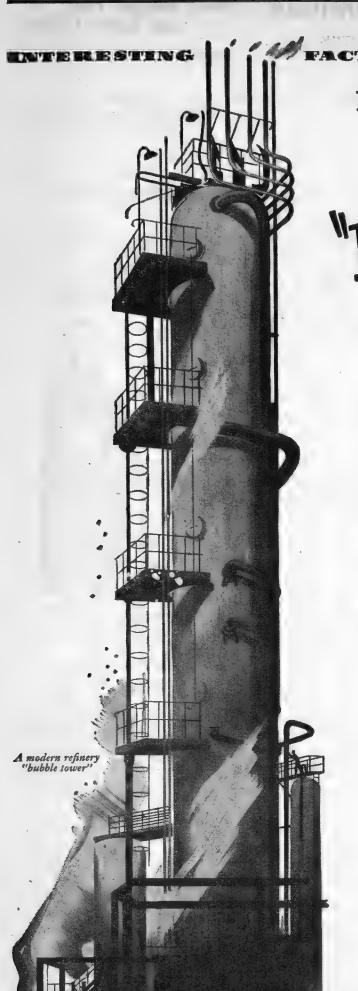
Modern Protection Provides Great Comfort and Holding Security

Without Torturous Truss Wearing

betts protect them.

E National Research Council has three main functions. It operates across Canada. It acts as adternet to the various departments of rament, particularly those of National Poeface, Reconstruction and ly. The third important function connection with the organizing by extreme cold is not likely to be as great during winter if dense shelter betts protect them.

Supplies of alfalfa seed in Canada Supplies of alfalfa seed in Canada are little more than required for Canadian use. The limited quantity available for export will be far short of filling export requirements. Because of the exceptionally high demand for this seed in the United States and most Northern than connection with the organizing belts conditions are favorable in sum-



FACTS ABOUT OIL

How Science Works a Miracle in



If you were to visit one of Imperial Oil's seven Canadian refineries, it would be like stepping into a veritable "bouse of magic".

And after many complex processes comes out in the form of more than 500 different products ranging from chamicals for a product of the seven chamicals for a product of the sev

different products, ranging from chemicals for synthetic rubber and gasoline and oil for cars, to wax for candles and asphalt for roads!

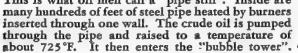
You begin to see how this miracle happens when you look at a kettle of boiling water. As everybody knows, water has a boiling point of 212° Fahrenheit. At this temperature it gives off steam, which can be condensed to form distilled water.

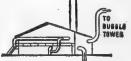




Crude oil, however, is not a pure substance like water. It is a mixture of many different chemical compounds called "hydrocarbons", each with its own particular boiling point. As a result, when crude oil is heated, it gives off a succession of vapors as the temperature is raised. By keeping these vapors separate and condensing them, crude oil can be broken up into gasoline, kerosene and other oil "fractions".

This is what oil men call a "pipe still". Inside are many hundreds of feet of steel pipe heated by burners inserted through one wall. The crude oil is pumped







This is a simple diagram of a bubble tower. It is a tall, steel drum in which the heated crude oil is separated into its various "fractions", which are drawn off through openings in the side. The bubble tower is very hot at the bottom and comparatively cool at the top.

Every two feet or so up the tower there are large steel discs or trays, like big pie-plates, containing liquid formed by condensation of some of the hot oil vapors.





This shows how the trays and what happens inside a bubble tower. The hot oil vapors rise from the tray below and bubble through

the name, "bubble tower"). The light vapors, escaping from the liquid, rush upward to higher trays. The heavy vapors, however, are condensed and carried off in liquid form through pipes. More and more vapors are condensed as they pass through the trays higher up, and are drawn out through the sides of the tower at various levels.

The typical Imperial refinery, with its bubble towers and other fascinating processes is truly "a house of magic". Out of it comes gasoline to power our cars... fuel oil to heat our homes... kerosene for the farmers' lamps and stove...lubricating oils to keep the wheels of industry and transportation rolling...waxes for floors... asphalt for roads and airport runways... even basic ingredients for Miss Canada's cosmetics. All the crude oil is utilized to bring to modern living a total of MORE THAN 500 DIFFERENT, USEFUL PETROLEUM PRODUCTS!



MPERIAL O

"Cows and Kilowatts" was the topic of addresses in Edmonton February 27 and Calgary, March 1, by Hobart Beresford, head of the department of agricultural engineering at the university of Idaho and one of the outstanding authorities on rural electrification in North America.

With the aid of charts, he explained how electricity pumped water, washed clothes, cleaned grain and did other work on Idaho farms at a cost of only about one-quarter that of farm labor for the same work. Electricity had reduced the drudgery and increased the profits for each hour of labor required.

Each year has brought new labordairy farmer. Among the newest items were a power-operated gutter cleaner and pumps for transferring the liquid manure to a pit or sump some distance from the stable. Commercial units were available, or the equipment could be home-made. Ultraviolet lamps in the stable were another innovation. The lamps reduced bacteria and eliminated objectionable odors and their use would undoubtedly be extended further for farm needs, Mr. Beresford predicted.

Increased profits through use of electricity had met with more en-million dollars of new business, with thusiastic use of electricity on Idaho over ninety millions paid to policyhol-As time went on the users ceased to worry about the cost of current; instead, they used all the electrical equipment they could fit into

Delay Protested

Protests at the slow progress of electrification of Alberta farms were expressed by farmers at Calgary, during a discussion period. They were ardently sold on electricity: what they now wanted was to get it in their own communities. One farmer said that in his district they had a 100 per cent sign-up requesting power lines over a year ago, but they had still heard nothing about actually getting power. Frustration of himself and his neighbors was so complete they "daren't mention rural electrification any more. I'm glad my wife isn't here today," he declared.

Officials of Calgary Power and Canadian Utilities companies replied that shortages of wire, poles and other sions as rapidly as they wished. A Canadian General Electric employee, said his firm at Calgary had been able to obtain only one-tenth of the wire it needed so far this year to supply its in the statement for this excess. customers.

Mr. Beresford tended to believe private utilities had given better farm electrification service than govern-ment utilities, in his area in the United States. He had visited the Increased supplies of materials and settlement, one way or another, of the uncertainty regarding the status of private utilities in Alberta; would be followed by rapid progress in rural electrification, he predicted.

The way to lower costs in the pouland lack of good management.

Favor Early Merger Of Farm Groups

Plans for a merger of the Alberta Federation of Agriculture, Alberta Farmers' Union and United Farmers of Alberta were furthered at a meeting of the contact committee for the three organizations on February 25 in Edmonton.

A seven-member committee was appointed to draw up the basic principles of the new organization and report to the full contact committee early in

"A frank discussion of the problems saving electrical equipment for the involved in bringing about the merger showed the whole tenor of the meeting to be in favor of the merger taking place at the earliest possible date," said a contact committee statement.

Sun Life Reports Record Year in 1945

One hundred million dollars increase in assets, largest in any single year since the first policy was written 75 years ago, two hundred and forty-one million dollars of new business, with ders during 1945, and an increase in policyholders' dividends, featured the statement of the Sun Life of Canadathe most outstanding in the Company's history—at the 75th annual meeting held recently. Total assurances in force now stand at the record high figure of \$3,390,372,000, total benefits paid since organization are now \$1,800,672,-000 while assets now amount to over one and one-quarter billion dollars.

The financial statement presented by Arthur B. Wood, president and managing director, said that of the company's total assets, 52.2 per cent is held government bonds of Canada, United States, Great Britain, and other allied nations. The remainder of the assets, with the percentage of each to total assets, consist of the followingmunicipal bonds, 3.8%, industrial bonds, 3.7%, railroad bonds, 0.4%, public utility bonds, 15.2%, preferred and guaranteed stocks, 1.8%, common stocks, 8.4%, mortgages, 4.6%, real esthat shortages of wire, poles and other tate, 1.4%, policy loans, 4.6%, cash, materials prohibited making exten- 1.5%, other assets, 2.4%. All of the assets appear in the statement at book Canadian General Electric employee, values, in no case exceeding cost. The verifying the acute shortage of wire, market values of both bonds and stocks are substantially in excess of the book values, but no credit whatever is taken

Milk sugar extracted from whey and fed to the penicillium mould from which penicillin is refined, will be used rural electrification projects at Olds to produce the new wonder drug, and Swalwell in Alberta and was im- streptomycin, effective in controlling pressed with the sound beginnings such diseases as typhoid and dy-

Geese Easily Raised On Cheap Feeds

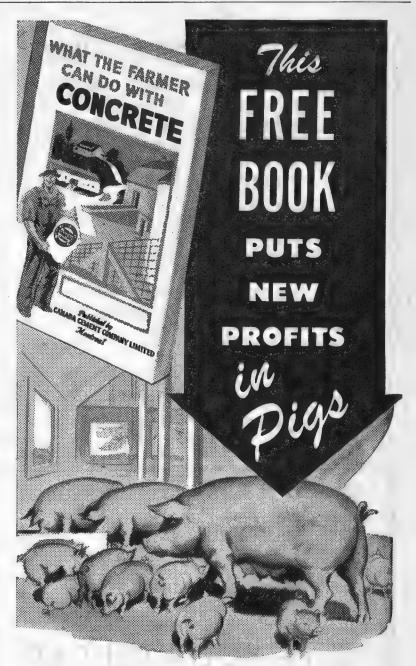
THE raising of a flock of geese on the farm can be made a profitable undertaking because geese are comparatively inexpensive to feed and are try industry is to avoid loss of the almost immune to diseases common to birds through lowered vitality, over-other barnyard fowl. They require crowding, poor housing, poor feeding, only cheap houses and the cheapest feed the farm produces.

from early spring to late in the fall stalks. They prefer the leaves, and an grass eaters and will leave grain in them with as much of this as they the feeding trough to pluck the tender require. They will eat leaves of letgrass when it is available.

During the winter months, when carrots or almost any green vegetable. there is snow on the ground and fresh green feed is not available, the geese should be supplied with a handful of mixed grain each day and as much well cured alfalfa or clover hay as they will consume.

Where there is plenty of grassland. If the hay is cut green and well breeding geese will get along nicely cured, they will eat both the leaves and with little grain feeding. Geese are attempt should be made to provide tuce, cabbage, potato peelings, turnips,

> When this green feed is fed. it should be supplied fairly liberally and the grain ration restricted accordingly. Grain may consist of oats, barley and wheat of equal parts, and the best time to feed it is early in the evening.



 Pigs will fatten quicker and so pay better if you give them the convenience of a concrete feeding floor and hoghouse. They'll be easier to handle too and you'll save yourself a lot of work. Send today for your free copy of "What the Farmer can do with Concrete". It tells how to build rot proof, money-saving concrete hoghouses, root cellars, barn floors, and foundations, silos and many other improvements. Mail coupon below.

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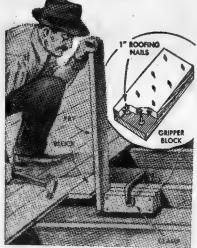
Handy Devi

By Courtesy of The Popular Mechanics Magazine

CLEANING KEROSENE STOVE WICKS

To clean the wick of a kerosene stove or heater, first wipe the charred end with a cloth and then rub it over a piece of screen tacked to a wooden frame. Before replacing the wick, wipe the shield enclosing it.

ASSURES TIGHT SEAMS WHEN LAYING FLOOR



WHEN laying a new floor where a sub-floor is not used, this gripper block will provide a rigid stop for a pry bar used to force warped flooring tripped, or regular butt hinges can be boards into position before nailing mounted so as to give enough tension The block is made from two screwed in place over the nail heads to GAUGE MEASURES WARPED hold them. In use, the block is attached to a joist with a C-clamp so that the projecting ends of the nails sink into the joist to prevent slipping. piece of 2 x 4-inch about 3 feet long is used as a pry bar. To avoid damaging the tongue or groove on a floor board, place a short block of flooring between the pry bar and the board.

TOOLS STORED IN OILED SAND TO PREVENT RUSTING



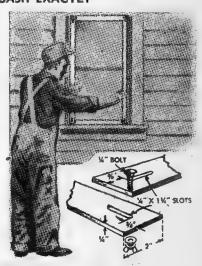
TO keep his spades, pitchforks and other tools clean and free from rust, one farmer sets them in a container of sand, where they always are ready for use. This also prevents the possibility of accidentally tripping over or stepping on tools left standing against a wall. A large basket, box or cut-down oil drum will do for the container, which is filled with sand mixed with a small amount of waste crankcase oil. The sand not only prevents rust, but also cleans the tools

CHICKENS CAN OPEN COOP DOOR IN MORNING



THIS automatic door opener will let chickens out of their coop in early morning without someone opening the door. As chickens bestir themselves at daybreak, they crowd around the door. and one of them will hop up on the trigger board allowing the door to open. The trigger is a 3 or 4-inch strip notched on the underside to fit over the top of the door and hinged to the upper edge of the door opening so that it projects inside the coop. Spring hinges will open the door when trigger is to spring the door open.

FRAME TO FIT STORM SASH EXACTLY



WITH an adjustable gauge made of light wood, storm windows can be fitted exactly into old sash frames that are out of square. The gauge consists of four strips of 1/4 x 2-in. stock cut 1/4 in. shorter than the dimensions of the largest window to be fitted. The strips are assembled to form a frame that fits into the window, a slot being cut near the end of each strip to take a bolt, which is held by a washer and wing nut. The gauge is fitted to the sash frame and used as a pattern for the storm sash which is cut to fit exactly. After using the gauge on the largest window, the strips are shortened to fit loosely into the next largest window frame and so on until all windows have been fitted.

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CALGARY



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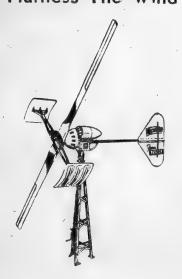
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CALGARY - EDMONTON

Serving Alberta Farmers for 30 Years

Timely Advice Offered Beginner In Beekeeping

Before making a start in bee-equipment should not be used in the keeping some consideration coming season. should be given to the abundance ing in the district. In some sec- through a local beekeepers' association. tions of the semi-arid prairie ers for profitable beekeeping. sufficient aweet clover growing on the roadsides for several colonies of bees or there may be an area of waste land where sweet clover may be scattered to provide a volunteer crop each year without attention. A field of alfalfa left for seed within a mile of the hive is usually sufficient pasture for an excellent crop of honey. One objection to alfalfa honey is that it granulates too readily for best winter stores.

Scott, Sask., says E. Van Nice, where reasonably heavy-wooded areas, there ures instead. plant.

ature and books to familiarize himself medium or strong colony respectively. with the work and, if possible, he should get some experience with a successful beekeeper.

best to make sure that all hives and frames are standard Langstroth so that frames and supers will be interchangethe colony contains a young queen and sufficient bees to cover six or seven frames. The price should not exceed The most common way, however, is to get new equipment during the winter and have it ready for a package of bees, with queen, ordered to arrive about Later packages seldom prove profitable as there must be time to build up a strong colony of young bees before the main honey flow. cost of equipment for beginning, including the complete hive with frames, lid and floorboard, should not exceed \$15. Other equipment included in this cost is a queen excluder, a bee escape board, a No. 1 smoker and a bee veil.

It is well to understand at the beginning that swarming must be controlled. This is not difficult if regular inspection is made once per week during mid-summer and plenty of room is provided by adding supers as necessary. Inspections require very little time if the attendant has a thorough knowledge of proper conditions in the hive and how to correct irregularities. Free literature is available at any Dominion experimental station or university.

BEEKEEPERS should be ready for any emergency, and now is the time before the spring rush begins to think back on last year's operations, and to do now all the things that were planned when working with bees during the summer. Equipment and combs that need repairing and replacing, best known pioneer ranchmen, died at should be done without delay. Rickety his home in Macleod early in February boxes, poor combs, and other faulty at the age of 82.

Orders for new equipment or for package bees should be placed without of nectar producing plants grow- delay either direct with the shipper or

An important item in 1946 is the there are not enough native flow- sugar supply. In the past beekeepers have been allowed sufficient sugar for spring feeding and possibly many are This problem can often be over- of the opinion that permits for the purcome by providing some sweet chase of sugar will be again available. clover which is left to produce Beekeepers have been advised, that no seed. In some districts there is sugar would be allowed for spring feeding in 1946, and until this ruling of the sugar controller is revised or rescinded beekeepers must depend on honey for their spring requirements.

Division of Strong Colonies of Bees Increases Honey Yield

good dark honey in humid areas has B formed to the spring are referred to as weak, medium or been found to be unsatisfactory at the strong. These terms are indefinite, and Dominion Experimental Station at the Dominion Experimental Farm apiary at Brandon adopted a rough sysrainfall is scant. In the park belt, or tem of expressing them in actual fig-The number of frames is often plenty of fireweed growing covered by bees, the number of frames wild which is an ideal nectan-producing of sealed and the number of frames of unsealed brood in a colony are esti-If there is satisfactory flora for mated and expressed numerically as, honey production the inexperienced for example, 8-2-2. On such a basis, person has a chance of success pro-three, six or twelve frames covered viding he first makes a study of liter- with bees may be taken as a weak,

The weak colonies generally are united with medium colonies, or if retained as separate units are not con-When obtaining equipment, it is sidered as potential honey producers for that season. Medium colonies, in the spring, will build up or even surpass their peak population point at able. The purchase of an established the beginning of the honey flow, by colony from a reliable neighbor is an about June 15. Strong colonies may excellent way to get a start providing or may not develop swarming tendencies in early June.

During the four-year period, 1942-45, all colonies with six or more frames \$10, including an extra super with covered with bees in the spring were frames of empty comb or foundation, divided into two equal parts about the middle of May. For example, a colony estimated to contain 8-2-2 frames of bees, sealed and unsealed brood, would be divided into two units of 4-1-1. A queen was introduced into the increase portion at the time of making the division.

The divided colonies yielded an average of from 100 to 149 pounds of honey, depending on the race of bees, during four-year period. The parent colonies yielded approximately the same as similar-strength colonies which had not been divided. Therefore the additional average production from the extra divisions or nuclei, less the cost of the queens and the cost of the labor involved in making and manipulating the divisions was extra profit for the beekeeper.

Further experiments in tend to indicate that the division may be carried one step further with very strong colonies by dividing such colonies into three equal divisions without materially affecting the production capacity of the parent colony or the two divisions. Apparently there is a population peak, within the colony, above which surplus nectar storage is not increased and may actually be decreased.

"Johnny" Franklin, one of Alberta's



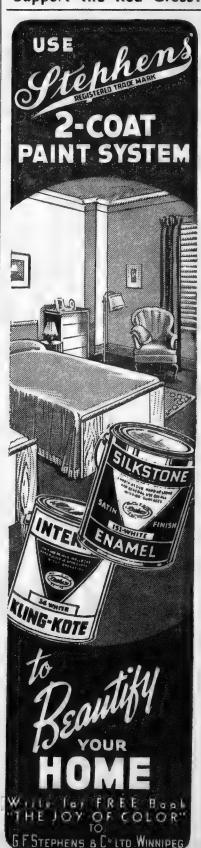
SOL-MIN. For cattle, sheep, horses and poultry. Promotes health, growth and fertility. Increases milk yield.



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Buy from your Deale CANADIAN INDUSTRIES LIMITED FERTILIZER CILL DIVISION

Support the Red Cross!



Matthews Ships 33 **Bulls to Texas**

A BERDEEN - ANGUS cattle from Highland Stock Farm, Calgary, are making quite a hit in the Lone Star state, says the Market Examiner. Last week Chas. C. Matthews owner of the breeding establishment loaded out

PINEAPPLE GUAVA

Produces Rich Luscious Fruit on Dwarf

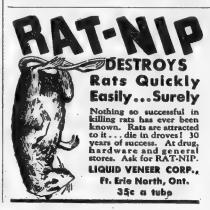
Produces Rich Luscious Fruit on
This rich tropical fruit is
produced on plants that are
highly ornamental too. A
fascinating and novel houseplant with its glossy green
and silvery-gray foliage.
Flowers as large as 1½
inches across, white to purplish crimson with crimson
stamens; followed by delicious aromatic fruit about
1½ to 2 inches long. Flesh
is translucent white of pronounced pineapple flavour
and seeds so small as to be unnotices
raw, cooked, or in jams and jellies,
will fill a room with delightful fragra
from seed. Full directions supplied.

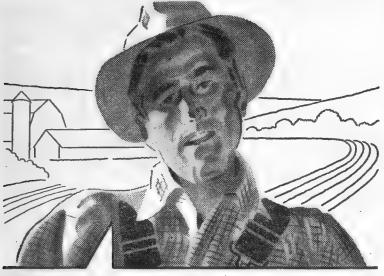
(Pkt 25¢) (3 pkts 50¢) po
FREE—OUR BIG 1946 SE

FREE-OUR BIG 1946 SEED AND NURSERY BOOK — Leads Again DOMINION SEED HOUSE - GEORGETOWN, ONT.

33 yearling bulls of his own breeding Want Sugar Factory which were billed to A. Carruthers, San Angelo, Tex.

This is the first shipment to Mr. Carruthers, but his ranch is not far from Ray Martin's at Balmarie, and he was evidently favorably impressed with the Matthews cattle which have been sent to Mr. Martin. In the last six years 125 buils have been sent from Highland Farm to Texas, and repeat orders indicate that the Alberta cattle must be giving excellent satisfaction.





"Weeds won't steal my crops!"

Uncontrolled weeds are the farmer's greatest crop thief. They can reduce a crop by one-fifth and increase labour by one-half.

You can save yourself work and money by using clean seed. This prevents the introduction of new weeds. Your agricultural college or experimental farm will tell you the best way to control weeds already in your soil . . . a service that is yours for the asking.

The Bank of Toronto offers farmers an equally important service—that of money. Now, as during the past 91 years, this Bank's friendly managers are ready and willing to aid responsible farmers with loans.

™BANK TORONTO

B. S. VANSTONE, General Manager

W146



In Taber District

TABER Irrigation District beet growers declared outright for a sugar factory at a meeting of Taber-Barnwell growers last week.

The Taber-Barnwell beet crop was

100,000 tons in 1945, and this aggregate could easily be raised by 25 per cent it was pointed out, and still assure plenty of time to deliver and process before killing frosts arrived each year.

The meeting expressed determination to obtain the plant in the near future and decided to give the company now operating at Lethbridge first opportunity of providing the If the sugar company did not plant. feel able to undertake the work action would be taken probably under the Alberta Co-operative Marketing Act, growers declared.

Regret was expressed at the resignation of the veteran secretary, Ted Sundal, who explained he was unable to continue business because of ill health, and J. C. Barton was appointed as temporary secretary.

Western Breeders On Hereford Board

The annual meeting of the Canadian Hereford Breeders' Association, held western Canadians to office: President, J. B. Palmer, Marsden, Sask.; of the minister. vice-president, R. W. Rutherford, Wincutt, Crossfield; William Moore, Garfield; Roy Bond, Irricana; from B.C., Len Wood, Armstrong; from Sas katchewan, Wilbur Catley, Craven. Second vice-president is George Rodanz, Toronto, and W. S. O'Neil, Denfield, Ont., is a director.

Growth in the organization was indicated in a steady increase of memberships and registration since 1942. Membership jumped from 947 in 1942 to 1,756 last year.

To Re-open Spillers' Calgary Flour Mill

Spillers flour mill in East Calgary, closed since October 5, 1933, will be re-opened this summer, probably under new management. The 2,500-barrel-aday capacity mill will employ from 50 to 100 men. There is a world-wide shortage of milling capacity. An order for 50,000 barrels of flour for shipment to China was turned down recently by western millers, who were already behind on their orders.

Red Deer Beekeepers Order 2 Million Bees

One hundred and fifteen orders, totalling two million bees, were placed through the Alberta department of agriculture by beekeepers from Red Deer and district. The bees are brought in from the United States.

Between 50 and 60 beekeepers attended the meeting of the Red Deer Beekeepers' Association, when W. G. LeMaistre, provincial apiarist, spoke on bee raising, and when the orders Supervised Muskrat for bees were accepted.

Canadian Utilities Ltd., head office that city in February. Approximately 22,000 customers in towns, villages and farms of Alberta now are served by

Registration Controlled

THE registration of purebred livestock in Canada is governed by the Livestock Pedigree Act which is administered under the authority of the Dominion Minister of Agriculture. Breed associations and the Canadian National Livestock Records are organized under the act, with the constitution, by-laws, and regulations of each subject to the approval of the minister. Through the assistance and supervision of the Dominion Department Agriculture, and by measures adopted for the correction and control of irregular practices and abuses, the reliability of certificates of registration for purebred animals is maintained.

All applications for registration by members and non-members breed associations operating within the Canadian National Livestock Records are checked by the chief registration officer, who also seals and signs the official certificates of registration.

Assistance is given in the establishment of definite means of identification for all registered animals, in the promotion of breed-type classification projects and in establishing adequate safeguards in respect to breeding practices and registrations connected with purebred animals produced by artificial insemination. All amendments to the in Saskatoon, elected a majority of constitution and regulations of breed associations are subject to the approval

For the year ended March 31, 1945, nipeg; directors—from Alberta, W. A. the number of registration certificates Crawford-Frost, Nanton; Frank Collipapproved were: — horses, 1,964; cattle, 60,338; sheep, 20,702; swine, 16,758; foxes, 4,445; dogs, 10,921, and goats, 166. The number of purebred animals exported was 9.537 and the number imported was 648.

Cream Graded Down For Bitter Flavor

Many dairy producers are losing money at the present time as a result of a bitter or rancid flavor in churning cream. Much of this cream is being placed in second grade because of this defect,

Bitter flavor is most common in the winter when the cows are on dry feed or when many of them are approaching the end of their lactation period: The milk from stripper cows and cows well advanced in lactation often show this tendency towards rancidity. suggested that such cows be dried off; and if this is not practicable, their milk should be kept separate from that of other cows in the herd.

It is easy to detect the cows responsible for the defect by holding individual milk samples from each cow at a low temperature for at least one day. preferably two, and then tasting the samples. In storing cream it is important that temperature fluctuations between body temperature and freezing be avoided. Most milk and cream will develop a bitter or rancid flavor if it is cooled, then warmed a little above room temperature, and again cooled for storage.

Trapping Program

Four supervised muskrat trapping in Calgary, held its annual meeting in areas are being organized in Saskatchewan, similar to the Manitoba plan, where trappers and the game branch of the department of natural resources this company, an increase of 1,500 cus- will co-operate to supervise muskrat tomers having been recorded in 1945, trapping in order to save the animals from extinction.

Soil Moisture Promises Good '46 Crop Start

THE precipitation which occurred over the prairies last fall between harvest and freeze-up, for the three prairie provinces and weighted for wheat acreage, averaged 102 per cent of normal, all according to the records from 700 Searle rain gauge stations. Fall moisture is stored in the ground, usually distributed quite evenly from just below the surface to about 6 feet, in depth, and remains there until used by the roots of the growing plants, but there is little plant growth on the prairies during the fall so most of the moisture is preserved until spring. Fall moisture, therefore, forms an important reserve for the use of the next year's crop. Normal fall moisture is usually followed by an average yield to the acre, whereas less than normal fall moisture is usually followed by a less than average yield.

Of the past 45 years, 29 years had better than average moisture during the fall. In 22 of these 29 years a better than average yield to the acre was produced. Altogether, then, the chances are in favor of an average yield for 1946, or around 17 bushels to the acre, assuming, of course, that average rains fall during the growing

20 Ex-Servicemen Plan Saskatchewan Co-operative Farm

SIXTEEN sections of Saskatchewan's richest soil, on the old Matador ranch, 50 miles north of Swift Current. will be the site this spring of a new experiment in putting the veteran on the land. About 20 interested veterans will be the experimenters in this jointwork, joint-profit idea.

The veterans first will attend a three-weeks' course to learn more about co-operative fundamentals and farm management. Then they will pool their land act grants. The Saskatchewan government will guarantee the veterans against any nature-hazard loss of the \$2,320 land act grant each will invest, provided Dominion veteraffairs officials agree. Recognition of the co-operative farm project as a legitimate undertaking under terms of the veterans' land act, and the payment of regular allowances to the veterans while they attend the farming course, is being sought from Ottawa.

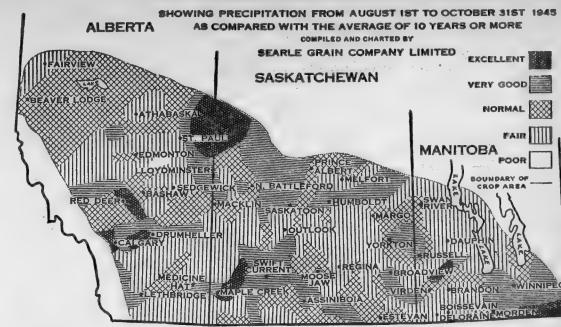
Accommodation of 20 veterans is planned. For efficiency it is proposed to divide the 16 sections of land into three units with groups of six or seven veterans to a unit. All may live in one community. Some or all of the equipment for the farm may be purchased from War Assets Corporation.

Increase Shorthorn Grant for Clubs

The Canadian Shorthorn Association meeting at Winnipeg allocated an additional \$200 for calf club work in Al-Alberta directors were congratulated by the parent association for the fine work done last year, and J. W. Durno of Calgary, western field- trials. man of the Association, was praised for outstanding work among breeders during 1945.

John Cross of Nanton, president of the Alberta Shorthorn Association, and ion and Gossamer. Geoffrey Thomas of Edmonton, first vice-president, were the official delegates from the provincial association. · Provision has been made for two regional shows in Alberta this year, 24. At Spokane, Washington, a three- were best suited to the production of one at Vermilion and one which may year-old Arabian horse recently com- this crop in Alberta. Deer fair.

WESTERN CANADA PRECIPITATION MAP



Best Flax Varieties For Fraser Valley

DURING 1945 a group of six fibre flax varieties were grown in carefully arranged experiments at Agassiz, Matsqui, Cloverdale and Ladner, B.C., to determine the varieties best suited to these localities. The sorts included represented the most outstanding material from the larger collection grown the previous year. These included Stormont Gossamer and Stormont Cirrus, the former being the first variety to be grown on a commercial scale in the Fraser Valley. In addition there were four representatives of the Liral the variety that comprised almost the entire 1945 commercial acreage, says M. F. Clarke, Experimental Farm, Agassiz, B.C.

average crop resulted in view of the fibre content were, however, surprisingly good; the principal disadvantage from the experimental point of view being that rust failed to develop and it was not possible to determine resistance to this disease.

In summing up the results for these trials on the basis of per cent fibre and total yield of fibre per acre, the order of yield is Cirrus, Prince, Crown, Monarch, Dominion and Gossamer in declining order. According to length of fibre Cirrus again ranks first by a very ciently in growing timber.

slight margin, while Gossamer and The recent scourge of forest fires in Crown are tied for second place fol- the western States emphasizes another lowed by Prince, Monarch and Domin-Fibre length was short in all instances and differences between which approximately 90 per cent, in varieties were too small to be consider- 1942, were not guarded by fire spotters. ed as significant. Yield differences are more striking inasmuch as Cirrus and Prince are significantly better than Stormont Gossamer and Liral Domin- SOFT WHEAT MARKET ion at three testing stations, a trend which was also indicated in the 1944

fast time of two hours and 19 minutes. Columbia and Ontario.

U.S. REALIZES VALUE OF FOREST WEALTH

THERE are encouraging signs that the United States public is awakening to the need of conservation of woodland resources, states the New York Times. National and State officials are planning to extend protection to wider areas of forest growth. It is probable that in the immediate future many communities and counties will establish municipally-owned forests. Many privately financed, non-profit organizations are pushing the cause of series, notably Crown, Prince, Monarch forest conservation. Through the exand Dominion, the last named being tension services of the state colleges, farm woodland owners are becoming increasingly interested in handling forest tracts on a scientific basis. veterans will undoubtedly enroll for In every instance a shorter than courses in forestry work; since the development of forest areas for public unusually dry season. Quality and use, the transplanting of millions of trees, fire prevention methods and education of woodland owners offer many vocational opportunities.

A recent report of the United States Soil Conservation Service indicated that some 50,000,000 of the approximate 417,500,000 acres under cultivation in that country should be reforested immediately. Probably another 25,000,000 acres are so eroded, stony or rough that they can be used most efficiently in growing timber.

great problem. Some 30,000,000 acres of woodland are burned annually, of

Because of the embargo against the importing of soft wheat from United States and Australia, certain milling From the growers' point of view the companies are interested in contractforegoing information indicates that ing with Canadian growers for some of Cirrus and Prince might well replace this soft wheat, according to William the presently grown varieties Domin- Hay of the Lethbridge experimental station. By use of proper irrigation methods, Mr. Hay believed the protein content of the soft wheat could be kept The first 30-mile horse race ever to down to a low enough level, and therebe held in Calgary will be run on May fore he believed the irrigated areas The present

Grass Crops Differ In Soil Fibre Value

ONE of the important uses of grass in a crop rotation is to increase the fibre content of the soil when the grass is broken up, thus increasing the soil's resistance to wind and water In preliminary tests at the erosion. Lethbridge Experimental Station, root fibre samples taken from a set of grass plots that had been broken up 18 months previously and maintained as summerfallow gave the following re-

Grams of roots (oven dry) per cubic foot on plots 18 months after plow-

Crop Grown Grams of	Roots.
Crested wheatgrass	8.12
Brome grass	1.96
Slender wheatgrass	1.40
Alfalfa	1.68
Wheat-fallow	0.28

It was further found that on the crested wheatgrass plots 75 per cent of the root fibre was in the upper six inches of soil. This amount of fibre is sufficient to assist greatly in holding the land.

In planning a farm program for the next few years it is well to consider now the importance of building up the fibre content of the soil

Wilt-Resistant Alfalfa May Replace Grimm

A new strain of alfalfa, Ranger, said to be resistant to bacterial wilt which has reduced the life of Alberta havfields by 50 per cent or more in recent years, is being tested by Dominion plant pathologists in Alberta.

In Nebraska, where the strain was developed, it was found Ranger will stand two or three years longer against bacterial wilt than Grimm alfalfa, according to Dr. M. W. Cormack, associate plant pathologist at the Dominion laboratory of plant pathology in Edmonton. It is believed Ranger or some better strain will eventually replace Grimm in the alfalfa areas of the northern United States, but it will take several years to build up seed stocks. Ranger seems to be as hardy as Grimm, but does not yield so well where wilt does not exist.

in the winter feeding of breeding be held in conjunction with the Red pleted this distance in the remarkably acreage in Canada is mainly in British ewes, grain should never be more than coarsely ground.

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M. HOLMES, Circulation Dept., Farm and Ranch Review, Calgary, Alberta

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The breeder listed below will be glad to send particulars on request.

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Roy Ballhorn, Accerdited Herd, Wetaskiwin, Alta.

Huntington Farm, Accredited Herd, Purebred Land and Water Fowl, W. J. Pickard, Wetaskiwin, Alta.

Red Polls

T. H. Howes, Willow Farm, Accredited Herd, Millet, Alberta.

Shetland Ponice

Barton's Pony Ranch, Nokomis, Sask.

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GARDEN CULTIVATOR for sale. Price \$10.00. Box 341, Calgary, Alta.

750 Watt, 32 Volt DELCO LIGHT PLANT, beavy, guaranteed batteries, 650-watt, 32-volt Windcharger with tower. Roy Schroter, Bramner, Alta.

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They are again available in the following breeds: White Leghorns, R.I. Reds, Barred Rocks and New Hampshires. A letter will bring full particulars and prices by return.

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Heavy Breed Cockerels 9.00
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W. Leghorns	116.00	
Leghorn Pullets	\$31.00	-
N. Hampshires, Rocks,		
Reds	\$18.00	\$16.00
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first calf show and sale ever to be held in the Drumheller district will

Most Weeds Best Controlled by Cultural Methods

best hope for the Canadian tural methods and fertilizers described above. farmer, despite promising de-Mather, supervisor, soil and ment might run as high as \$1,000. A weeds, department of agriculture, Edmonton.

Tests were conducted against annual weeds by seven different Alberta farmers, who seeded barley SONG POEMS wanted to be set to music. Send poem for immediate consideration. FIVE STAR MUSIC MASTERS, 545 Beacon Bldg., of field. The best yields, in every case Boston 8, Mass. except one where it was a close second, were obtained by a combination of heavy seeding, plus post-seeding cultivation, plus fertilizer. The heavy seeding was at a rate 50 per cent greater than normal; post-seeding cultivation was by means of a rod weeder or wire weeder when the sprouts on the seeds were one inch long - note, not the length of sprouts above ground, but the length of the sprouts on the seeds themselves; and the fertilizer, 11-48-0, was applied at the rate of 30 pounds per acre. The average yield of barley per acre on the seven farms, when this three-way combination was used, was 42.2 bushels per acre. The check plots, on which no special treatment was used, averaged the lowest, 27.3 bushels of barley per acre. The second best average yield, 36.4 bushels per acre, was obtained by heavy seeding, plus post-seeding cultivation, but with no fertilizer. Heavy seeding alone gave an average yield of 28.7 bushels an acre, while an application of "sinox", relatively new chemical weed killer which is used on broad-leaved annuals, resulted in an average yield of 28 bushels to the acre. On two of the seven fields, fertilizer was used alone, and the results were second and third best respectively.

Post Seeding Cultivation

which Mr. Mather is enthusiastic, he prefers a rod weeder to a wire weeder in any area where soil drifting is a menace. If the cultivation is done when the seed sprouts are one inch long, offset the thinning, as the sprouts can be cut without damage, although the ones actually torn off the seeds will be killed. The only way to determine the date for the post-seeding cultivation is by measuring the sprouts in the ground, as the time may vary about 5 to 14 days after seeding.

Commenting on sinox, Mr. Mather states that while it is a useful weedkiller, the publicity given it probably is a little greater than the facts warrant. Sinox was effective in killing annual weeds in the early stages of take place during the second week of their growth, which resulted in increased grain yields particularly where

The cost of sinox for use in a spray it takes 8,000 to 10,000 gallons of water per acre for spraying field crops, which might make the spray method of applying sinox or any other chemical impracticable on some farms. However, Manitoba experiments with sinox dust have been encouraging, he believes, so there might soon be no necessity of spraying this chemical.

ELEVEN fields in Conrich, M.D., near Calgary, were seeded to barley in fields infested with wild oats. In most cases, the fields were cultivated in late April or early May and again when sown, about the middle of June. The report, issued in 1945, showed that in the ten fields where Olli or Newal, the two earliest varieties of barley, were More Sent Overseas sown, the reduction in wild oat infestation was from 85 to 100 per cent in seven of the fields and 80, 75 and 75 there was a 50 per cent reduction in wild oat infestation.

It will be noted that all the above refers to annual weeds. In the control that fall-sown plants, such as fall rye, which develop a root system in the fall imposed: and are thus ready to compete against Canada's shipments overseas. the weeds on an equal footing in the ada thistle, while in the other half, which was seeded to fall rye, Canada thistle plant was more than to set domestic consumption at a rate one foot high although the rye was of 130 pounds per person per year. considerably taller than that.

Mr. Mather recommends the applica-For post-seeding cultivation, about sodium chlorate, for the destruction of the per capita rate, bringing the target small patches of Canada thistle, al- to 135 pounds. though the cost of \$75 to \$100 an acre makes the method uneconomical against larger infestations. One kind of sodium chlorate, which contains the 50 per cent heavier seeding will manganese oxide, cakes less than the Closely Regulated ordinary kind, and therefore is easier to apply

2-4-D Not a Cure-All

weedicide, he points out it is "selec- Canada. Sales agencies and dealers tive" - i.e., it destroys certain plants and not others-because the 2-4-D spray runs off narrow, waxy leaves. and for that very reason it also is ineffective against certain weeds.

While it is reasonably cheap, and effective against broad-leaved plants such as dandelion and plantain, it troubles, in his opinion. At a recent conference of agronomists from United deep-rooted perennials.

The conclusion that 2-4-D is not wholly effective against certain perenresults of experiments at the Experiment Station, Geneva, New York, which packer direct from the country were reported in that station's publication, Farm Research. Destruction of sow thistle, dandelion, lambs quarter, thistle, milkweed and poison ivy, were results, but at the same time it will might be advisable to sow crops ompletely destroyed.

In the same experiments, grasses most districts

The second of the second of

ULTURAL methods of weed moisture was good, but as pointed out, were, in general, only slightly if at control at present are the better results were obtained by the cut- all affected, and apple rootstocks were not damaged, but white clover was killed back. There appeared to be no residual effect of the material in the velopments in chemical weed- is about \$3 an acre, he estimates. In soil, as grains and grasses germinated killers, according to H. J. addition, the cost of spraying equip- and grew well when seeded on soil killers, according to H. J. addition, the cost of spraying equip- and grew well when seeded on soil with a seeded on soil and ment might run as high as \$1,000. A which had been treated with 2-4-D five weeks previously.

> Despite the fact that 2-4-D is not a "cure-ali", in Mr. Mather's estimation, he states that it is a hormone, which destroys plants by causing them to grow to death, and not a "poison" like the older weed-killers, which kill weeds by sterilizing the ground itself. hormone type of weed-killer is a new approach to the old problem and we may soon have a weedicide which will be effective even on our worst weeds," he declared

Canadians Eat Less Meat Under Rationing,

Meat rationing in Canada is providing a yearly rate of 150,000,000 addiper cent in the other three. In the one tional pounds of meat available for exfield where O.A.C. 21 barley was sown, port to the starving millions of Europe and to Great Britain, according to figures released by the Wartime Prices and Trade Board.

The figures show, board officials of perennial weeds, Mr. Mather believes said, that meat rationing is accomplishing the objective for which it was resubstantially increasing

Domestic consumption of meat has spring, are more effective than a been reduced to a rate of 136 pounds spring, are more such as barley. He per person per year, compared with a showed a slide picturing one-half of a 149-pound rate for the corresponding field heavily infested with healthy Can-period in 1944, the statement said. The original objective, when meat rationing went into effect in September, was However, changes in the system, such as the removal of "fancy meats" from tion of the well-known chemical, the ration, added about five pounds to

Stockyards Trading

As a protection to the buyer and seller of livestock, certain requirements are made with respect to trading in With reference to 2-4-D, the newest stockyards and public markets in must be bonded and must place funds received from the sale of livestock in a Shippers' Trust Account. All records must be bona fide and open for inspection. Schedules of commissions and charges are subject to official approval. as are also scales and weighmasters.

Stockyards proprietors are required definitely is not a cure-all for weed to provide adequate accommodation and services, as well as good feed at fair prices. An official representative States and Canada it was decided not of the Dominion Department of Agrito recommend the use of 2-4-D against culture is located at each of the eleven stockyards in Canada to administer the regulations and prepare regular market reports. Certain controls are also nial weeds was partly borne out by exercised over packers' yards in the case of livestock purchased by the

Meteorologists predict that chickweed, pigweed and ragweed, and mencing this year the great plains of severe checking of bindweed, Canada North America will undergo another cycle of drought. While sincerely hopeffected. These appear to be gratifying ing the meteorologists are wrong, it be seen that no deep-rooted perennial early as possible, in order to take adis included in the list of those weeds vantage of the moisture from the heavy falls of snow which have occurred in

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In this Department may be advertised anything you want to buy, sell or

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Copy of paper containing your advertisement will be sent you, and this will constitute an acknowledgment of your order.

Copy of your advertisement must reach us 15 days in advance of date of issue to insure insertion.

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Wit of the World

REAL HEALTH

Fisherman: You've been watching me for three hours. Why don't you try fishing vourself?

Onlooker: I ain't got the patience.

The twins had been brought to be christened.

"What names?" asked the clergyman. "Steak and Kidney," the father answered.

"Bill, you fool," cried the mother, "it's Kate and Sidney."

"Then an explosion tore up Main

"Goodness, and what did you do?"

"Tore up a side street."

"Repeat the words the defendant used," said counsel for the plaintiff in a case of slander.

"I'd rather not," said the witness timidly; "they were hardly words to tell a gentleman."

"I see," said counsel: "then whisper them to the judge."

Skeptic Miss: "Can this coat be worn out in the rain without hurting it?"

Fur Salesman: "Lady, did you ever see a skunk wearing an umbrella?"

"Mummy, the teacher asked me all about you and daddy, and if I had any

brothers and sisters."
"I am glad to see her taking so much interest," replied the mother. "What did you tell her?"

"I said I was the only child."

"And what did she say to that?" asked the mother.

"Oh, just "Thank heaven'."

"Gee, I feel terrible. It must-a been them clams I et."

"What's the matter; weren't they fresh?"

"I don't know."

"Well, what did they look like when you opened 'em?"

"Gee whiz! Are you supposed to open 'em?"

Two little boys had misbehaved in school, and as a punishment the teacher told them they would have to stay late, and that each must write his name 100 times. On hearing this, one of them burst into tears.

"'Taint fair," he cried. "His name is Lee, and mine's Kastenbaumen-stein."

Mrs. Newrich (patronizingly): "Were any of your ancestors men of note, 'Mr. Nobody?"

Nobody: "Yes, madame; I should say One of them was the most famous admiral of his day and commanded the allied forces of the whole world."

'It is possible! What was his name? "Noah, madame."

Housewife, to tramp: "You seem to be an able-bodied man. You ought to be strong enough to work."

Tramp: "I know, mum, and you seem to be beautiful enough to go on the stage, but evidently you prefer the simple life."

Housewife: "Steep"

Housewife: "Step into the kitchen and I'll see if I can stir up a meal for

A doctor had an urgent phone call from a gentleman, saying his small.

son had swallowed his fountain pen.
"All right, I'll come at once," the
doctor assured him, "What are you doing in the meantime?"

"Using a pencil."

Psychiatrist: That habit of talking to yourself is really nothing to worry

about. Patient: Perhaps not, but I'm such

"Can you tell me the way to the church?" asked the stranger in the village.

"Certainly, sir," replied the oldest inhabitant, obligingly. "Go up the down, keep straight along the crooked

"Am dat you, Liza?"
"Yessuh."

"Am you' gwine to marry me?" "Sho ah is-who is dis talkin'?"

Man: "What's the difference between lane, then round the square, and when the blueplate special and the white-you turn left, you're right!" plate special?"

Waiter: "The whiteplate special is five cents more." Man: "Is the food better on the

whiteplate special?"

Waiter: "No; but we have to wash

them."

Support the Red Cross!



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Here is a fascinating and educational puzzle game, in which you can quickly qualify for generous cash prizes. COSTS ABSOLUTELY NOTHING TO TRY—COSTS NOTHING TO WIN.

Below are given the names of 30 United Nations Capital Cities. Each of the letters used to form the names of these 30 cities has a certain value in points—as shown in the letter value chart. The object of the puzzle game is to fill in, as on an ordinary crossword puzzle—the names of 15 United Nations Capitals, whose com-bined letters will total up to the highest possible point value.

SIMPLE RULES

Starting with either WASHINGTON or LONDON—fill in ALL the blank white squares or spaces—each with a separate letter, so that each section on the chart will spell the name of a capital city. Names must be connected and no spaces are to be left blank. Spell from left to right and from top to bottom. Not more than one letter to be put in any one space. The names WASHINGTON and LONDON must remain on the chart as shown.

Every letter used to spell a name including

DON must remain on the chart as shown.

Every letter used to spell a name including Washington and London (except letters which join or connect two names) has a point value (see letter-value chart). Letters which join or connect two names has a point value (see letter-value chart). Letters which join or connect two names have 5 times their regular value, when in that position. For example the "S" in WASH-INGTON is worth 10 points, instead of its regular 2-point value. Likewise the "G" is worth 25 points and the "N" valued at 15 points. In LONDON the "L" is worth 20 points while each of the two "N"s is worth 15 points. Only names of cities shown in the list of 30 Capital Cities may be used. No name to be used twice, and spelling must be the same as in the list. When all the white spaces are filled with letters to

the same as in the list.

When all the white spaces are filled with letters to spell names—add up the total of each line across (a horizontal line) and then fill in the total of each horizontal line in the space provided at the right in the long ladder-like up and down (vertical) column. Then add up all the horizontal totals at the bottom to obtain the Grand Total. The object is to find the highest possible total for the Grand Total.

Capital Cities

Asuncion

Athens Belgrade Bogota Brussels Cairo Canberra Capetown Caracas Copenhagen Copen. Delhi Delhi Guatemala Havana Lapaz Lima London Luxemburg Manila Mexico Montevideo Moscow Nanking Oslo Ottawa Paris Warsaw Washington

All those contestants who succeed in finding the high correct score will then be immediately qualified and eligible to take part, without any delay, in the Final or Tiebreaker puzzle, which will decide the cash prize winners

IT'S ALL FREE

When you have solved the puzzle and completed the chart, sign your name and address in the space provided below the puzzle chart. Then mail promptly the entire advertisement to the KAMLOOPS RECREATIONAL SOCIETY, Kamloops, British Columbia. Send no money. All we ask you to do is to send us on a separate sheet of paper the names and addresses of three people whom you know also like to take part in puzzle contest games. EXTRA PUZZLE WORK CHARTS MAILED FREE ON REQUEST.

WASHINGTON 7 1 8 W # L 0 N D CA-BACA 0 N GRAND TOTAL→

Name	***************************************	***************************************	***************************************
Street			***************************************
City or		The state of	
Town		Prov	Ta

LETTER VALUES

No Money to Pay

To advertise Kamloops, the heart of British Columbia's Vast Inland Empire, and the Tourist Attractions of the Famous Kamloops District, as well as to acquaint you with our Post War Plans and Activiyou with our Post war Plans and Activities, the Kamloops Recreational Society will award — absolutely FREE 115 Cash Prizes totalling \$1,000.00. First Prize is \$200.00, Second Prize \$100.00, Third Prize \$50.00, Fourth Prize \$25.00 — next 31 Prizes \$10.00 each — another 35 prizes each \$5.00 and 45 more prizes each \$2.00. 115 Prizes in ALL—Total Value \$1,000.00. Remember the contest is entirely FREE. Remember the contest is entirely FREE. There is nothing to pay—nothing to buy or sell. THIS POSITIVELY IS NOT A LOTTERY AND IS ABSOLUTELY LEGAL.

QUALIFY FOR \$4,000.00

Be sure to mail your puzzle solution promptly— as a SPECIAL EXTRA bonus prize of \$10.00 will be given to each of the 5 Major winners as a re-ward for promptness.

The same day we receive your answer we will reply telling you how you stand, and also advising you how you may qualify for STILL LARGER and more generous Cash Prizes, in which YOU CAN WIN AS MUCH AS \$4,000.00. In this BIGGER CASH PRIZE DISTRIBU-TION, a total of TWELVE THOUSAND DOLLARS more will also be given away in the next few weeks,

We want thousands of people across Canada to know all about the wonderful scenic beauties, including the famous 50 lakes, that provide some of the most excellent fishing and hunting in the world—all located in the immediate territory which surrounds the beautiful mountain city of Kamloops. Attractive illustrated tourist literature describing the unexcelled vacation lands of British Columbia, will be sent to all. So answer the puzzle NOW. Don't Delay. Join in the fun. Anybody can take part. Judges are all well known men.

Kamloops Recreational Society, Kamloops, B.C.

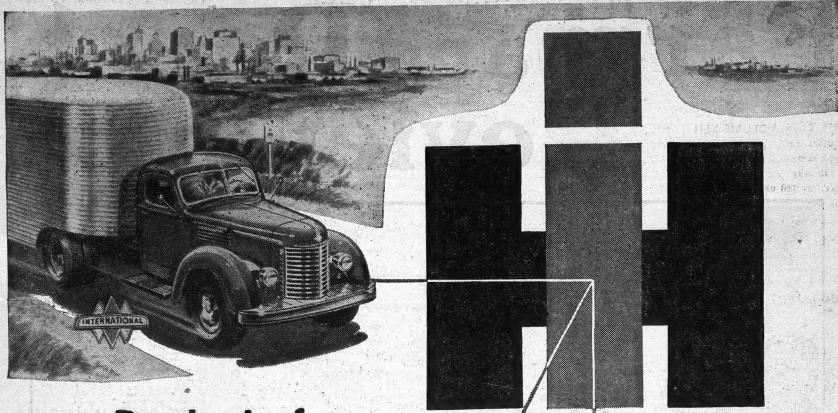


Here is news for your holiday-hungry heart!

Glorious Banff Springs Hotel in the Canadian Rockies will reopen on June 15 this year—golf, riding, swimming, hiking! Other world-famous Canadian Pacific resort hotels in Eastern and Western Canada will reopen this summer too—Chareau Lake Louise;

Emerald Lake Chalet and Mountain Lodges in the Rockies, the Algonquin Holiday Colony at St. Andrews-by-the-Sea, New Brunswick, the Digby Pines in Nova Scotia—and others. These Canadian Pacific resorts are famous for hospitality, courtesy and service. They have been host to countless thousands of visitors from every part of North America and many foreign lands.





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city they serve you, the reader of these words.

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development. Harvester will help in
greater measure in the new era that
lies ahead for agriculture and
industry.

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BULL SALE



MARCH 19 to 22, 1946 1,141 BULLS

217 Shorthorns, 165 Aberdeen-Angus and 759 Hereford — all registered and Government-tested Herd Headers and good range Bulls from leading Alberta breeders,

FAT CATTLE AND FEMALE SHOW AND SALES

Monday, March 18, at 2:30 p.m. A selected entry representing the three beef breeds from prominent Alberta Breeders.

Write for Sale Catalogue and General Information Directs to

Alberta Livestock Associations

CALGARY, ALBERTA, CANADA Wilson, Pres. J. Chas. Yule, Sect'y



Add a few drops of Rex Wheat Germ Oil to regular rations and make a profitable producer of every organically right animal on your farm. Rex Oil prevents and corrects non-organic breeding troubles because it supplies in concentrated form factors necessary for successful breeding.

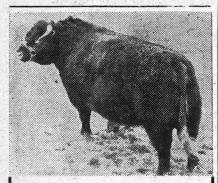
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CANADIAN SHORTHORN ASSOCIATION

Gummer Bldg., or 503 Sunderland Ave., Guelph, Ontario Calgary, Alberta

Record 1141 Entries Listed For 46th Calgary Bull Sale

OFFICERS and directors of the Alberta Cattle Breeders' Association, preparing for the 46th annual Calgary Bull Sale, announce that this year's entry list of purebred bulls is the largest in the long history of the event. Contributors have entered a total of 1,141 animals, comprising 759 Herefords, 217 Shorthorns and 165 Aberdeen-Angus. Last year, 799 bulls passed through the sale ring for a total of \$364,845. Since its inception in 1901, this annual sale has disposed of 18,944 bulls for a grand total of \$3,776,845.

In view of the exceptionally heavy entry promised for this 453 ENTRIES year's sale, contributors are be- FOR KAMLOOPS ing advised by the management not to bring in animals which SPRING SALE are in any way defective or good representatives of the breed. A culling committee at the grounds will weed out any

classes have brought a list of 47 good calves, 21 of which are Shorthorns, 18 Herefords and 8 Aberdeen-Angus. In addition, 30 single fat animals are entered for the fat CREAMERY FOR BROOKS stock classes, and some 80 selected purebred beef females are being offered for sale.

Baby beef and fat stock classes will be judged on Monday, March 18, and these entries along with the females will be sold that afternoon. All bulls will be judged Tuesday morning, and the sale, starting with Herefords, will commence that afternoon.

In all, 1,088 horses have been entered for the annual spring horse sale to be held March 5, 6 and 7. Contributors to this event have also been warned that there is a good market only for animals that are well broken and well fitted and conditioned. It is believed that there will be some demand for heavier horses for woods work, and a number of eastern buyers are expected to attend.

E. I. Clarke Heads **Edmonton Fair Board**

E. I. Clarke, well-known livestock breeder, has been elected president of Edmonton Exhibition Association, succeeding Lee S. Williams, who occupied the chair during the past three years, when the organization was carried on most successfully through very trying times. R. V. Price is vice-president.

Members of the executive are: Ald Bisset, Ald. Mitchell, James Paul, Namao; W. C. Bissell, Viking, and Carl Berg; Dr. G. M. Malmas, veterinarian; Thomas E. Gardside, solicitor.

REVIVE INTERNATIONAL

America's largest livestock showthe International Livestock Exposition -will be held November 30 to December 7, 1946, after a wartime lapse of four years. The last exposition, held in 1941, closed the night before Pearl Harbor, and the show's directors voted several months later to suspend the exposition for the duration of the war.

Three honorable mentions were won by Hays Ltd., Calgary, in the annual All-Canadian contest for Holsteins: the heifer calf class; Beverly Marma Wayne in the class for senior yearling

Rigidly-culled bulls consisting of 95 which are not outstandingly Herefords, 30 Shorthorns and three Aberdeen-Angus will be offered at the Kamloops bull sale on March 14. On March 13, a total of 325 grain-fitted beef animals of the quality for which inferior animals and send them this sale is famous, will be auctioned.

All the livestock will be judged by Boys' and girls' baby beef Prof. J. W. G. MacEwan, of the University of Saskatchewan. Auctioneers will be Mat. Hassen and Son, Armstrong, and J. W. Durno, Calgary.

. . . .

A new creamery that may be com-pleted by spring will be built in Brooks by the Southern Alberta Dairy Pool to serve a large area of the Eastern Irrigation District and a considerable adjacent territory.

Edmonton Show April 9 - 11

Edmonton Exhibition directors and officials are completing arrangements for three important events on their spring calendar. A heavy entry list is expected for the auction sale of draft and farm horses and pure-bred mares to be held at the exhibition grounds on Tuesday, March 26. Entries March 25.

Entries will close on March 9 for the sale of registered bred sows which will be held on April 10.

April 9-10-11 have been selected as dates for the annual spring livestock show. Entries for the fat stock show and sale and junior calf-feeding competitions will close on March 23. Entry forms, catalogues and other informa tion is available to prospective exhibitors or buyers at the exhibition office at the Arena.

Advocate Specialized Prairie Farm Horse

THE animal husbandry department of the University of Saskatchewan has a program planned to develop a breed of horses which will be suitable to the needs of prairie farmers. While it is recognized that the horse is on the wane, the department maintains that a utility type team will always be useful around the average mixed farm. It plans to propagate middle-weight horses, clean limbed, chestnut in color. full of action, toughness and fertility. and above all, versatile.

The type desired is 15.3 hands in height and 1,500 pounds in weight. A team of mares of this type has been Gerben Alcartra Wayne in the four-found in a cross between Clydesdale-year-old class; Hays' Hayden Ruth in Hackney stock. Professor Grant Mc-Ewen of the department says there are still a good many jobs on the farm that can be done only by horses.

Edmonton Exhibition

HORSE SALE March 26th

EXHIBITION GROUNDS Entries for Auction Sale of Draft and Farm Horses and Purebred Marcs Close March 25th.

BULL SALE

APRIL 11th Bull Sale Entries Close

March 9th.

Sale of Registered Bred Sows, April 10 Entries close March 9.

SPRING SHOW DATES

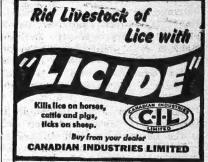
APRIL 9 - 10 - 11

Entries for Fat Stock Show and Sale and Junior Calf Feeding Competitions close March 23rd.

For complete information, Entry Forms and Bull Sale Catalogue write:

EDMONTON EXHIBITION ASSOCIATION LTD.

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